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Dibenzofuran; Angular dioxygenation; Intramolecular hemiacetal cleavage reaction; *Brevibacterium* (Engesser, K.H. (65) 205)

Asialoganglioside
Bradyrhizobium spp.; *Bradyrhizobium japonicum*; *Escherichia coli*; Peanut agglutinin; Lipopolysaccharide; Micelle; Precipitin reaction (Maiti, T.K. (65) 279)

Aspergillus nidulans
β-*N*-Acetylglucosaminidase; Autolysis (Reyes, F. (65) 83)

Acidification; pH Mutants (Rossi, A. (66) 51)

Invertase; Solubilisation; Cell wall; Location (Vainstein, M.H. (71) 265)

Aspergillus niger
Endoglucanase; Modulators (Singh, A. (71) 221)

Aspergillus terreus
Glucoamylase; Characterization (Ghose, A. (66) 345)

Asymbiotic nitrogen fixation
Aeschynomene; *Rhizobium*; Stem nodulation (Alazard, D. (68) 177)

Asymmetric reduction
Aldehyde reductase; *Sporobolomyces salmonicolor* (Yamada, H. (70) 45)

Atmospheric H_2
Hydrogen-oxidizing bacteria; Soil enzymes; H_2 oxidation kinetics; H_2 threshold (Schuler, S. (73) 77)

ATPase
Nucleoside triphosphate hydrolase; ADPase; *Toxoplasma gondii* (Asai, T. (72) 89)

ATP binding proteins
Periplasmic permeases; Traffic ATPases; Energy coupling; Conserved amino acid homology; Multidrug resistance (Ames, G.F.-L. (75) 429)

ATP generation
Nitrobacter sp.; Nitric oxide metabolism; NADH synthesis (Freitag, A. (66) 157)

ATP sulfurylase
Archaeoglobus fulgidus; Sulfate activation; Dissimilatory sulfate reduction (Dahl, C. (67) 27)

ATP-synthase
Archaebacteria; Electron transport; Cytochrome; Chemiosmosis; Thermoacidophiles (Schäfer, G. (75) 335)

Aureobasidium pullulans
Extracellular polysaccharide; Pullulan (Silman, R.W. (71) 65)

Autolysis
β-*N*-Acetylglucosaminidase; *Aspergillus nidulans* (Reyes, F. (65) 83)

1,3-β-Glucanase; *Penicillium oxalicum* (Copa-Patiño, J.L. (65) 285)

Murein; RelA; Soluble lytic transglycosylase; Slt (Betzner, A.S. (67) 161)

β-Glucosidase; *Penicillium oxalicum* (Copa-Patiño, J.L. (67) 191)

Penicillium oxalicum; β-Glucanase; Cell wall hydrolysis; β-Glucan (Copa-Patiño, J.L. (70) 233)

Autotrophic nitrification
Acid rain; Ammonium deposition; Heterotrophic nitrification; *Penicilliu*; Nitrogen cycle (Stams, A.J.M. (74) 337)

***Ava*I**
Type II restriction endonuclease; Isoschizomer (Leung, S.M. (66) 153)

***Ava*II**
Restriction endonuclease; Isoschizomer; Cyanobacteria; *Synechocystis*; *Xmn*I; *Syn*I; *Syn*II (Foerg, E. (69) 105)

Avermectin
Streptomyces avermitilis (Novák, J. (70) 291)

Azolla
Anabaena azollae; Host-endosymbiont association; DNA hybridization (Plazinski, J. (65) 199)

Anabaena; Symbiosis; *Agrobacterium*; Plasmid; DNA hybridization (Plazinski, J. (70) 55)

Anabaena; Ammonium and potassium microelectrodes; Nitrogenase activity; Cyanophycin (Canini, A. (71) 205)

Azorhizobium
Polyamine; Homospermidine; *Rhizobium*; *Bradyrhizobium*; *Agrobacterium* (Hamana, K. (71) 71)

***Azospirillum brasilense* strain Sp245**
Agrobacterium tumefaciens; Anthranilic acid (Katzy, E.I. (72) 1)

Azospirillum lipoferum
Amoebae; Polychlorinated biphenyls (PCBs); Pyralene; Population dynamics (Steinberg, C. (73) 139)

Azotobacteraceae
Nitrate transport-mutant (Ruiz, M.T. (67) 211)

Azotobacter chroococcum
Hydrogen uptake; Hydrogenase; Hup^- mutants; Complementation; *hup* Genes; *Bradyrhizobium japonicum* (Tibelius, K.H. (65) 53)

Plasmid; 2,4-D Dissimilation (Balajee, S. (65) 223)

Bacillus
Corynebacterium; Protoplast fusion; Hybrid (Deb, J.K. (71) 287)

Na^+/H^+ antiporter; Proteoliposomes (Krulwich, T.A. (75) 271)

Bacillus acidocaldarius
Acidophilic bacteria; Neutrophilic bacteria; Proton motive force; Reversed membrane potential (internally positive); K^+-transport systems; TPP^+-distribution method; Centrifugation–filtration method (Bakker, E.P. (75) 319)

Bacillus brevis
Tyrocidine; Antibiotic peptide; Adenosine; 5′-AMP (Oyama, M. (66) 277)

Bacillus cereus
Transformation; Plasmid (Sabelnikov, A.G. (72) 123)

Bacillus licheniformis
β-Lactamase induction; *Escherichia coli*; BLAR-CTD (Joris, B. (70) 107)

arg Mutants; Argininosuccinate lyase; Transposon mutagenesis (Wati, M.R. (71) 211)

Bacillus natto
Defective phage; Host chromosomal DNA packaging; Induction with bleomycin and mitomycin C (Tsutsumi, Y. (72) 41)

***Bacillus* sp.**
Secretion; Heterologous protein; Subcellular location; Gold labelling (Wagner, B. (65) 327)

***Bacillus* sp. H-167**
Nucleotide sequence; G_6-amylase gene (Shirokizawa, O. (70) 131)

Bacillus sphaericus
Transformation; Electroporation (Taylor, L.D. (66) 125)

Mosquitocidal toxins; Deletion mutants; Fusion protein (Oei, C. (72) 265)

Bacillus subtilis
Codon usage; Gene expression (Loshon, C.A. (65) 59)

Diphtheria toxin; *Corynebacterium* (Hemilä, H. (65) 193)

Transformation; Electroporation (Brigidi, P. (67) 135)

Whooping cough; Pertussis toxin; Recombinant DNA; Protein secretion (Saris, P. (68) 143)

Inosine production; Metabolism of purines; *spoOA* Gene (Maznitsa, I.I. (72) 173)

***Bacillus subtilis* spores**
Uptake; L-Alanine; Glutaraldehyde (Power, E.G.M. (66) 271)

Bacillus thuringiensis
Insecticidal crystal protein; *Coleoptera*; *Escherichia coli*; Recombinant DNA; Site specific mutagenesis; Fusion protein (Rhim, S.-L. (66) 95)

∂-Endotoxin gene; Site directed mutagenesis; Receptor binding (Ahmad, W. (68) 97)

***Bacillus thuringiensis* subsp. *morrisoni* (PG-14)**
Mutant; Dipteran toxicity; Lepidopteran toxicity; Protein endotoxin specificity (Padua, L.E. (66) 257)

Backwards methods
Cell cycle; Synchrony; Membrane-elution; DNA synthesis; Variability (Cooper, S. (66) 1)

Bacteria
Cationic fluorescent dye; Fluorescence; Flow cytometry; *Agrobacterium tumefaciens*; Lectins; Glycoconjugates; Antibody; Immunofluorescence (Depierreux, C. (67) 237)

Alkaline phosphatase; Apatite; *Providencia rettgeri* (Hirschler, A. (73) 211)

Bacteria, anaerobic
Phospholipid; Biomass; Growth state (Brinch-Iversen, J. (74) 345)

Bacteria, green
Photosynthesis; Microelectrode (Castenholz, R.W. (74) 325)

Bacterial adherence
Listeria monocytogenes; Carbohydrate binding protein (Cottin, J. (68) 301)

Bacterial biofilm
Cell surface hydrophobicity; Specific growth rate; *Pseudomonas aeruginosa* (Allison, D.G. (71) 101)

Bacterial classification
Ribosomal RNA; DNA probe (Böttger, E.C. (65) 171)

Bacterial genetics
Plasmid; Electroporation; Transformation; *Pseudomonas*; Recombinant DNA (Farinha, M.A. (70) 221)

Bacterial identification
Gel electrophoresis; Whole-cell protein (Hantula, J. (70) 325)

Bacterial infection
Transferrin; Ferric iron; Bicarbonate (Bullen, J.J. (71) 27)

Bacterial kidney disease
Gene cloning; Haemolytic activity (Evenden, A.J. (71) 31)

Bacterial killing
Streptococcus pneumoniae; β-Lactam antibiotics (López, R. (66) 317)

Bacterial metabolism
Aromatic compounds; Methylhydroxylase; Mono-oxygenase; Multiprotein component; NADH: acceptor oxidoreductase (El-Mansi, E.M.T. (66) 147)

Methylacetate; Methanol; Acetate (Rakov, D.Y. (67) 67)

Bacterial pathogen
Great Bay estuary; Water-borne disease; Shellfish-borne disease; Environmental isolation (O'Neill, K.R. (72) 113)

Bacterial pigments
Tyrosinase; Melanin (Kelley, S.K. (67) 275)

Bactericidal effect
Macrolide antibiotic; Irreversible binding; TMS-19-Q (Endou, K. (72) 93)

Bacteriochlorophyll
Rhodopseudomonas cryptolactis; Lactate metabolism; Thermotolerance (Stadtwald-Demchick, R. (71) 117)

Bacteriochlorophyll *a* synthesis
Phototrophic bacteria; Oxic/anoxic regimen; Continuous culture (De Wit, R. (73) 69)

Bacteriocin
Lactococcus lactis; Bacteriophage resistance; Conjugation; DRC1 (Powell, I.B. (72) 209)

Bacteriolysis
Fosfomycin; Chloramphenicol (Mengin-Lecreulx, D. (66) 129)

Bacteriophage
Pseudomonas spp.; Root colonization (O'Sullivan, M. (68) 329)

Bacteriophage PM2
Aeromonas; Lipopolysaccharide (Merino, S. (68) 239)

Bacteriophage PM3
Aeromonas hydrophila; Flagellum (Merino, S. (69) 277)

Bacteriophage resistance
Lactococcus lactis; Bacteriocin; Conjugation; DRC1 (Powell, I.B. (72) 209)

Bacteriophages
DAPI; Surface antigens; Grazing (Enger, Ø. (74) 215)

Bacteriostasis
Milk; *Bordetella pertussis* (Redhead, K. (70) 269)

Bacteroides
Sheep; Periodontal disease; Outer membrane protein; SDS–PAGE (McCourtie, J. (71) 5)

Bacteroides fragilis
Bacteroides ruminicola; Xylanase; Conjugation (Whitehead, T.R. (66) 61)

Purification; Iron regulated outer membrane protein; Lipopolysaccharide binding protein (Otto, B.R. (66) 285)

Outer membrane protein; Growth, in vivo (Patrick, S. (71) 1)

Adherence; Neuraminidase (Guzmán, C.A. (71) 187)

Bacteroides gingivalis
Neutrophil; Virulence (Kay, H.M. (72) 69)

Salivary histidine-rich peptide; Hemagglutination (Murakami, Y. (72) 275)

Bacteroides ruminicola
Xylanase; *Bacteroides fragilis*; Conjugation (Whitehead, T.R. (66) 61)

Barley
Symbiotic association; *Rhizobium astragali* (Jing, Y. (69) 123)

Basidiomycete
Lignin peroxidase; Manganese peroxidases; *Phanerochaete chrysosporium*; White-rot fungus (Balachandra Dass, S. (69) 221)

Batch culture
Growth; Nutrient limitation; Cell composition; Carbon; Nitrogen; Phosphorus; Sulphur; Potassium; Dynamics; Exponential phase; Stationary phase (Wanner, U. (75) 19)

B-cell epitope
65-kDa Heat shock protein; Monoclonal antibody (Rambukkana, A. (76) 39)

Herpes simplex virus; Glycoprotein D; T cell epitope; Synthetic peptide (Welling-Wester, S. (76) 59)

B-cell mitogen
Ribosomal vaccine; Formaldehyde condensation; *Salmonella typhimurium* (Kita, E. (76) 229)

***Bcg* locus**
Macrophage; Activation; *Mycobacterium bovis* (BCG) (Afroun, S. (76) 257)

Beer spoilage
Immunoblotting; *Pectinatus cerevisiiphilus* (Hakalehto, E. (67) 307)

Benzaldehydes
Vanillin; Aromatic compounds; Carbon monoxide; *Clostridium formicoaceticum; Clostridium thermoaceticum; Peptostreptococcus productus* (Lux, M.F. (67) 73)

Benzene dioxygenase
Catabolic plasmid; *bed*ABC1C2 (Tan, H.-M. (72) 259)

Benzoate
Tetrachloroethylene; Electron acceptor; Anaerobic degradation (Scholz-Muramatsu, H. (66) 81)

Phenol; Chlorophenols; Anaerobic degradation (Zhang, X. (67) 63)

Benzoate dioxygenase reductase
Toluate dioxygenase; *xyl*D Gene (Moodie, F.D.L. (71) 163)

Betaine
Compatible solutes; Potassium; Glutamate; Gene expression; Transport; Osmoregulation; DNA supercoiling (Booth, I.R. (75) 239)

Biarylether
4-Carboxybiphenylether; Dioxygenolytic ether bond cleavage; Phenol; Protocatechuate; *Pseudomonas* sp. (Engesser, K.H. (69) 317)

Bicarbonate
Transferrin; Ferric iron; Bacterial infection (Bullen, J.J. (71) 27)

Bicarbonate concentrating system
Inorganic carbon uptake; RuBisCO activity; Unicellular cyanobacteria; Oceanic *Synechococcus* species (Amalia, D. (68) 137)

Binding affinity
HIV-1; gp41 Fragment env591-642; Expression in yeast; Antigenicity in ELISA tests (Gairin, J.E. (76) 109)

Binding inhibition
Pertussis toxin; Receptor binding domain; Conformational epitope; Monoclonal antibody (Schmidt, M.A. (76) 269)

Binding protein
Glucose uptake; *Vibrio*; Starvation (Albertson, N.H. (70) 205)

Bioconversion
Glyceryl trinitrate; Glyceryl mononitrates; *Geotrichum candidum* (Ducrocq, C. (65) 219)

Mycinamicin; *Micromonospora*; Macrolide antibiotic (Fujiwara, T. (69) 101)

Biodegradation
Surfactant; Marine environment; Pollution; Aerobic heterotrophic bacteria (Sigoillot, J.-C. (73) 59)

Phenoxyalkanoic acid; Chlorinated aniline; Adaptation; Enrichment (Pfarl, C. (73) 255)

Biogeochemical processes
Microbial conversion rates; Diffusion flux; Iron and manganese reduction; Redox sequence; Anaerobic methane oxidation; Inhibition of methanogens (Brandl, H. (74) 21)

Biological control
Soil; Antagonism; Non-pathogenic strains; Yield (Couteaudier, Y. (74) 261)

Biological phosphate removal
Acinetobacter; Sewage (Vasiliadis, G. (70) 37)

Biological phosphorus removal
Activated sludge; Anoxic phosphate uptake; Polyphosphate-accumulating bacteria; *Acinetobacter* (Streichan, M. (73) 113)

Biomass
Phospholipid; Bacteria, anaerobic; Growth state (Brinch-Iversen, J. (74) 345)

Biomass and metabolic activity estimations
Frankia; Inoculum standardization; Tetrazolium salt (Prin, Y. (69) 91)

Biosynthesis
Methanogens; Archaebacteria; *Methanobacterium thermoautotrophicum*; Cell wall; Peptidoglycan; Murein; Pseudomurein (Hartmann, E. (69) 271)

Biotin labelling
Leptospira interrogans; Ribosomal RNA cistron; cDNA transcription (Hookey, J.V. (72) 329)

Biotinylated probe
TEM-type beta-lactamase; Enterobacteriaceae (Tham, T.N. (69) 109)

Bisadenylated nucleotides
Heat shock and heavy metal ion stresses; ppGpp; Nitrogen starvation of *Anabaena* sp.; *Synechococcus* sp.; Cyanophage AS-1 (Borbély, G. (74) 141)

BLAR-CTD
β-Lactamase induction; *Escherichia coli*; *Bacillus licheniformis* (Joris, B. (70) 107)

Bordetella bronchiseptica
Dermonecrotic toxin; Purification (Horiguchi, Y. (66) 39)

Bordetella pertussis
Cloning; Virulence regulatory locus (McGillivray, D.M. (65) 333)

Siderophore; Iron (Gorringe, A.R. (66) 101)

Fimbriae; Sequence; Antigenic determinants; Vaccine (Mooi, F.R. (66) 327)

Protein purification; Antigenicity analysis (Gould-Kostka, J.L. (67) 285)

DNA inversion system (Foxall, P.A. (69) 1)

Milk; Bacteriostasis (Redhead, K. (70) 269)

Outer membrane; Outer membrane protein; Iron (Anwar, H. (71) 305)

Borrelia burgdorferi
Southern blots; Hybridization; Monoclonal antibody (Fattorini, P. (76) 13)

Lipooligosaccharide (LOS); Immunogenicity (Cinco, M. (76) 33)

Antibody; Cross-reactivity; Spirochete (Sambri, V. (76) 345)

***Botulinum* neurotoxins**
Synaptosome; Monoclonal antibody (Park, M.K. (72) 243)

Bradykinin
Mycoplasma sp.; Vascular permeability (Shibata, K.-I. (65) 149)

Bradyrhizobium
Polyamine; Homospermidine; *Rhizobium*; *Azorhizobium*; *Agrobacterium* (Hamana, K. (71) 71)

Bradyrhizobium japonicum
Hydrogen uptake; Hydrogenase; Hup$^-$ mutants; Complementation; *hup* Genes; *Azotobacter chroococcum* (Tibelius, K.H. (65) 53)

Bradyrhizobium spp.; *Escherichia coli*; Peanut agglutinin; Lipopolysaccharide; Asialoganglioside; Micelle; Precipitin reaction (Maiti, T.K. (65) 279)

***Bradyrhizobium* spp.**
Bradyrhizobium japonicum; *Escherichia coli*; Peanut agglutinin; Lipopolysaccharide; Asialoganglioside; Micelle; Precipitin reaction (Maiti, T.K. (65) 279)

Branching
Streptomycetes; Septation; Fluorescence microscopy; Image processing (Reichl, U. (67) 207)

Brevibacterium
Dibenzofuran; Aryl ether cleavage; Angular dioxygenation; Intramolecular hemiacetal cleavage reaction (Engesser, K.H. (65) 205)

Brevibacterium ammoniagenes
Protein secretion; Complexed membrane (Seehaus, C. (66) 281)

Brevibacterium lactofermentum
Restriction-modification; Phage CL31 (Bonnassie, S. (72) 143)

Broad host range plasmid
Corynebacterium sp.; Origin of replication; Shuttle vector (Serwold-Davis, T.M. (66) 119)

Bromoethanesulfonate
HS-CoM uptake; Salt marsh sediment (Konisky, J. (73) 239)

Brown-rot
White-rot; Cellulose; Xylanase; Enzyme inhibition; Wood decay; Phenolics (Highley, T.L. (66) 15)

Brucella
Isoelectric focusing; SDS–PAGE; Immunoblotting (Zygmunt, M.S. (70) 263)

2,3-Butanediol
"Syntrophic" fermentation; Formate; Thermodynamics (Seitz, H.-J. (71) 83)

Butyrate
Volatile fatty acid; Methanogenic enrichment; Propionate; Acetogenesis; ^{13}C-NMR (Tholozan, J.L. (73) 291)

Cadmium accumulation
Staphylococcus aureus; Cadmium efflux; Membrane potential; pH Gradient (Tynecka, Z. (69) 159)

Cadmium efflux
Staphylococcus aureus; Cadmium accumulation; Membrane potential; pH Gradient (Tynecka, Z. (69) 159)

Cadmium precipitation
Luria-Bertani broth; Cadmium resistance; Trace elements; Elemental analysis (Rayner, M.H. (71) 253)

Cadmium resistance
Luria-Bertani broth; Cadmium precipitation; Trace elements; Elemental analysis (Rayner, M.H. (71) 253)

Cadmium-resistant strain
Cadmium-sensitive strain; Envelope; Peptidoglycan (Hambuckers-Berhin, F. (73) 309)

Cadmium-sensitive strain
Cadmium-resistant strain; Envelope; Peptidoglycan (Hambuckers-Berhin, F. (73) 309)

Calcium signalling
Mating response; *Chlamydomonas eugametos* (Schuring, F. (71) 237)

Calcofluor
Logistic model; Sporulation; Population dynamics; Saprophytic competence (Couteaudier, Y. (74) 253)

Caldocellum saccharolyticum
β-D-Xylosidase; Thermophile; *Escherichia coli* (Lüthi, E. (67) 291)

Caldohexamine
Polyamine; Caldopentamine; Homocaldopentamine; Thermopentamine; *Thermomicrobium*; Thermophile (Hamana, K. (68) 31)

Caldopentamine
Polyamine; Homocaldopentamine; Thermopentamine; Caldohexamine; *Thermomicrobium*; Thermophile (Hamana, K. (68) 31)

Calmodulin
Protein kinase C; Diarrhoea; Electrolyte transport (Goyal, J. (66) 169)

Calvin cycle
Gene duplication; *cfx* Genes; *gap* Gene; Megaplasmid pHG1; Isoenzyme; CO_2 fixation (Windhövel, U. (66) 29)

Campbell-like integration
Streptococcus equisimilis; Streptokinase; *skc* Gene; Expression (Müller, J. (72) 75)

Campylobacter
Selective media; Primary isolation; Gastritis; Peptic ulcer disease; Gastroduodenal disease (Morgan, D.R. (66) 303)

Campylobacter coli
Campylobacter jejuni; *Campylobacter laridis*; Enterotoxigenicity (Lindblom, G.-B. (66) 163)

Campylobacter jejuni; Cytotoxin (Cover, T.L. (70) 301)

Campylobacter jejuni
Campylobacter coli; *Campylobacter laridis*; Enterotoxigenicity (Lindblom, G.-B. (66) 163)

Synthetic medium; Enterotoxin; Kinetics; Characterization (Saha, S.K. (67) 333)

Campylobacter coli; Cytotoxin (Cover, T.L. (70) 301)

Phagocytosis; Granulocyte (Bär, W. (76) 143)

Campylobacter laridis
Campylobacter jejuni; *Campylobacter coli*; Enterotoxigenicity (Lindblom, G.-B. (66) 163)

Campylobacter pylori
Stomach; Spiral bacteria; Urease; Monoclonal antibody (Newell, D.G. (65) 183)

***Campylobacter* sp.**
DNA–DNA blot hybridization; Porcine proliferative enteropathies (McOrist, S. (69) 189)

'Campylobacter upsaliensis'
Chromosomal DNA; Restriction endonuclease digestion; Electrophoresis (Owen, R.J. (72) 5)

Canavanine
Escherichia coli; Proteolysis; Regulation; Abnormal proteins; *lon* Gene (Rosenberger, R.F. (68) 19)

Candicidin
Streptomyces griseus; *pab* Gene; Hybridization (Gil, J.A. (70) 15)

Candida albicans
Adhesion; Extracellular matrix (Klotz, S.A. (68) 249)

Acetyl CoA; Mitochondria; Carnitine acetyltransferase; Lipogenesis (Sheridan, R. (69) 165)

Adherence; Antifungal drug; Acrylic resin; Zeta-potential (Miyake, Y. (69) 211)

Human neutrophil phagocytosis; Cilofungin (Richardson, M.D. (76) 299)

C-reactive protein; Phagocytosis; Neutrophil (Richardson, M.D. (76) 341)

Candida bombicola (syn. Torulopsis bombicola)
Alcohol oxidase; Long chain alcohols; Alkane diols (Hommel, R. (70) 183)

Candida famata
Peroxisome; Uricase; Allantoinase; Allantoicase; Ureidoglycollate lyase; Uric acid (Large, P.J. (72) 303)

Candida parapsilosis
Rat vaginitis; Clinical isolate (De Bernardis, F. (65) 137)

Capsular polysaccharide
Escherichia coli; CMP-KDO-synthetase (Finke, A. (69) 129)

Staphylococcus aureus; Haemolysin; Antigenic conjugate (Reynaud-Rondier, L. (76) 193)

K4 Capsular polysaccharide
Escherichia coli; Chondoitin; Gene cloning; Gene expression (Drake, C.R. (66) 227)

Capsule
Renibacterium salmoninarum (Dubreuil, D. (66) 313)

Mycobacteria; Electron microscopy; Immunocytochemistry (Rastogi, N. (70) 161)

Carbohydrate
Thermophily; Metabolism; Syntrophy; Fermentative bacteria; Acetogens; Methanogens (Winter, J. (75) 139)

Carbohydrate binding protein
Listeria monocytogenes; Bacterial adherence (Cottin, J. (68) 301)

Carbohydrate modification
Exoglucanase (β-glucosidase); Amino terminal sequence; Morphogenesis (Ramírez, M. (71) 43)

Carbon
Growth; Nutrient limitation; Batch culture; Cell composition; Nitrogen; Phosphorus; Sulphur; Potassium; Dynamics; Exponential phase; Stationary phase (Wanner, U. (75) 19)

Carbon/energy source limitation
Global regulation/control; Phosphate limitation; Nitrogen limitation; NAD limitation; Mu*d-lac* gene fusions (Spector, M.P. (74) 175)

Carbon monoxide
Vanillin; Benzaldehydes; Aromatic compounds; *Clostridium formicoaceticum; Clostridium thermoaceticum; Peptostreptococcus productus* (Lux, M.F. (67) 73)

Carbon monoxide dehydrogenase; Carboxydotrophic bacterium; *Pseudomonas thermocarboxydovorans* C2; Immunological screening; Cloning; Restriction analysis; Western blot analysis; Expression (Black, G.W. (70) 249)

Carbon monoxide dehydrogenase
Carbon monoxide; Carboxydotrophic bacterium; *Pseudomonas thermocarboxydovorans* C2; Immunological screening; Cloning; Restriction analysis; Western blot analysis; Expression (Black, G.W. (70) 249)

Carbon source
Clostridium thermocellum; Cellulase; Directed mutation; Growth lag (Nochur, S.V. (71) 199)

4-Carboxybiphenylether
Biarylether; Dioxygenolytic ether bond cleavage; Phenol; Protocatechuate; *Pseudomonas* sp. (Engesser, K.H. (69) 317)

Carboxybiphenyl ether degradation
Pseudomonas sp. strain NSS2; Phenol; Protocatechuate; Ether cleavage (Wittich, R.-M. (67) 157)

Carboxydobacteria
Pseudomonas; Polyamine; Hydroxypolyamine (Hamana, K. (70) 353)

Carboxydotrophic bacterium
Carbon monoxide; Carbon monoxide dehydrogenase; *Pseudomonas thermocarboxydovorans* C2; Immunological screening; Cloning; Restriction analysis; Western blot analysis; Expression (Black, G.W. (70) 249)

Cardinal growth temperatures
Chemostat; Diversity of enriched communities (Upton, A.C. (74) 243)

Carnitine acetyltransferase
Candida albicans; Acetyl CoA; Mitochondria; Lipogenesis (Sheridan, R. (69) 165)

β-Carotene
Carotenogenic *Escherichia coli*; β-Cryptoxanthin; *Erwinia herbicola* Eho 10; Zeaxanthin (Sandmann, G. (71) 77)

Carotenogenesis
Gibberella fujikuroi; Light pulse; Photoinduction (Avalos, J. (66) 295)

Carotenogenic *Escherichia coli*
β-Carotene; β-Cryptoxanthin; *Erwinia herbicola* Eho 10; Zeaxanthin (Sandmann, G. (71) 77)

Casuarina
Frankia; Hydrogenase; Nickel; Nitrogen fixation (Sellstedt, A. (70) 137)

CAT
E. coli genes; *lon* Gene; *dnaKJ* Gene; *groESL* Gene; *htpG* Gene; Transcriptional fusion; β-Galactosidase (Wetzstein, M. (72) 55)

Catabolic plasmid
Pseudomonas cepacia; Phthalate; Cloning (Saint, C.P. (69) 323)

Benzene dioxygenase; *bed*ABC1C2 (Tan, H.-M. (72) 259)

Catabolite repression
Malate utilisation; Glucose concentration (Rodriguez, S.B. (72) 17)

Catechol
Rhizobium sp.; Degradation; Plasmid (Gajendiran, N. (73) 125)

Cationic fluorescent dye
Fluorescence; Flow cytometry; Bacteria; *Agrobacterium tumefaciens*; Lectins; Glycoconjugates; Antibody; Immunofluorescence (Depierreux, C. (67) 237)

Cefotaxime
FPLC; β-Lactamase; TEM; Ceftazidime resistance (Payne, D.J. (69) 195)

Ceftazidime resistance
FPLC; β-Lactamase; TEM; Cefotaxime (Payne, D.J. (69) 195)

Cell adhesion
Escherichia coli; Verocytotoxin; Cytotoxin; Diarrhoea (Gunzburg, S.T. (69) 181)

Cell composition
Growth; Nutrient limitation; Batch culture; Carbon; Nitrogen; Phosphorus; Sulphur; Potassium; Dynamics; Exponential phase; Stationary phase (Wanner, U. (75) 19)

Cell cycle
Synchrony; Membrane-elution; DNA synthesis; Variability; Backwards methods (Cooper, S. (66) 1)

Chronic starvation; Stringent response; Toxin secretion (Chesbro, W. (74) 103)

Cell envelope
Cell wall; Outer membrane protein; Peptidoglycan-protein complex; Prochloraceae; *Prochlorothrix hollandica* (Jürgens, U.J. (70) 125)

Cell extracts
Yersinia ruckeri; Heat sensitive factor; Virulence (Furones, M.D. (66) 339)

Cell hydrophobicity
Cell-substrate adhesion; Plant cell culture; Substrate surface tension (Facchini, P.J. (67) 313)

Cell invasion
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Cell mediated immune response
Pertussis vaccination; Whole cell pertussis vaccine; Acellular pertussis vaccine (Petersen, J.W. (76) 279)

Cellobiosidase
Clostridium cellulororans; Endoglucanase; Molecular cloning (Hamamoto, T. (72) 285)

Cell separation
Cibacron blue 3G-A; *Staphylococcus aureus*; Giant cluster (Sugai, M. (67) 175)

Cell-substrate adhesion
Cell hydrophobicity; Plant cell culture; Substrate surface tension (Facchini, P.J. (67) 313)

Cell surface
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Cell surface hydrophobicity
Bacterial biofilm; Specific growth rate; *Pseudomonas aeruginosa* (Allison, D.G. (71) 101)

Cellular databases
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Cellulase activity
Fungal diversity; Litter decomposition; Condensed tannins; *Abies alba* (Savoie, J.-M. (73) 175)

Cellulase assay
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Cellulase biosynthesis
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Cellulase gene
Cloning; Expression; *Penicillium funiculosum* (Sahasrabudhe, N.A. (66) 291)

Cellulolytic bacteria
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Cellulolytic complex
Clostridium thermocellum; Cellulase assay; Michaelis-Menten kinetics (Nolte, A. (72) 201)

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Brown-rot; White-rot; Xylanase; Enzyme inhibition; Wood decay; Phenolics (Highley, T.L. (66) 15)

Mouse; Digestive tract; Diets; Cellulotyic bacteria (Boulahrouf, A. (69) 87)

Cellulotyic bacteria
Mouse; Digestive tract; Cellulose; Diets (Boulahrouf, A. (69) 87)

Cell wall
Cyanobacteria; Lipopolysaccharide; *Microcystis aeruginosa*; Outer membrane protein; Peptidoglycan–polysaccharide complex (Jürgens, U.J. (65) 47)

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Cell envelope; Outer membrane protein; Peptidoglycan-protein complex; Prochloraceae; *Prochlorothrix hollandica* (Jürgens, U.J. (70) 125)

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Cell wall fractions
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Cell wall hydrolysis
Penicillium oxalicum; β-Glucanase; Autolysis; β-Glucan (Copa-Patiño, J.L. (70) 233)

Centrifugation–filtration method
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Cephaloridine
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Cephalosporinase
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CH_4 evasion
Flux studies; O_2 consumption; CH_4 and O_2 concentration profiles; Methanogenesis; Methanotrophy (Frenzel, P. (73) 149)

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Characterization
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Leuconostoc oenos; Lactic dehydrogenase (Dicks, L.M.T. (67) 9)

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Chemical modification
Clostridium perfringens epsilon toxin; Lethal activity; Pressor activity; Contractile response (Nagahama, M. (72) 59)

Chemiluminescence
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Chemiosmosis
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Chemostat
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Chemostat culture
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Chemotactic factor
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Chemotaxonomy
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Corynebacterium; D2 group (Herrera-Alcaraz, E.A. (72) 341)

Chicken
Salmonella enteritidis; Phage type 4; Invasiveness (Hinton, M. (70) 193)

Chlamydia
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Chlamydia psittaci
Outer membrane protein; Cloning; DNA sequencing (Herring, A.J. (65) 153)

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Chlamydomonas eugametos
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Chlamydomonas reinhardtii
Transformation; Kanamycin resistance (Bingham, S.E. (65) 77)

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Halobacterium; Halophilic eubacteria; Saltern; Dead Sea; Anisomycin (Oren, A. (73) 187)

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Chloride transport
ΔpH; Acidophilic bacteria; Donnan potential; Proton diffusion potential (Matin, A. (75) 307)

Chlorinated aniline
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Chlorocatechol degrading enzymes
Chlorobiphenyl utilization; Hybrid organisms (Mokross, H. (71) 179)

Chlorogloeopsis fritschii
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Chlorophenols
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Chlorophyll
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Cholera toxin
Arachidonic acid; Prostaglandin; Phospholipase; Cyclic AMP; Murine macrophage cell (Liang, Y.-f. (72) 137)

Diarrhoeal disease; Proteolytic nicking/activation; Toxin-coregulated pilus; Hemagglutinin (Jonson, G. (74) 221)

Choline cell wall
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Chondoitin
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Chromate resistance
Chromate reduction; *Enterobacter cloacae* (Ohtake, H. (67) 85)

Chromatium
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Chromosomal DNA
'Campylobacter upsaliensis'; Restriction endonuclease digestion; Electrophoresis (Owen, R.J. (72) 5)

Chromosomal insertion
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Chromosomal mapping
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Chromosome
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Enterococcus faecalis; Tetracycline resistance; Plasmid; Conjugative transposon (Horaud, T. (72) 189)

Chromosome separation
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Chronic starvation
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Chymotrypsin
α-Amylase inhibitor; Tendamistat; Protein secretion; Fusion protein (Aretz, W. (65) 31)

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Cibacron blue 3G-A
Staphylococcus aureus; Cell separation; Giant cluster (Sugai, M. (67) 175)

Ciliates
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Cilofungin
Candida albicans; Human neutrophil phagocytosis (Richardson, M.D. (76) 299)

cir
Escherichia coli; Enterochelin; Dihydroxybenzoylserine; Dihydroxybenzoate; *fep*; *fiu* (Hantke, K. (67) 5)

Circulating immune complex
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Citrate lyase
Anaerobic respiration; Chlorate resistance; Fermentation (Clark, D.P. (67) 245)

Citrobacter
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Citrobacter freundii
Conjugation; Cotransfer; Entry exclusion; Mobilization; Plasmid aggregate (Morzejko, E. (68) 7)

CLDT
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Clinical
Zidovudine; Enterobacterial resistance; Thymidine kinase (Lewin, C.S. (70) 141)

Clinical isolate
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Cloning
Chlamydia psittaci; Outer membrane protein; DNA sequencing (Herring, A.J. (65) 153)

Pneumococcus; pDP1; Cryptic plasmid (Berry, A.M. (65) 275)

Bordetella pertussis; Virulence regulatory locus (McGillivray, D.M. (65) 333)

Urease; Nucleotide sequence; *Proteus vulgaris* (Mörsdorf, G. (66) 67)

Escherichia coli; GTP-cyclohydrolase I; Plasmid (Katzenmeier, G. (66) 231)

Cellulase gene; Expression; *Penicillium funiculosum* (Sahasrabudhe, N.A. (66) 291)

Tryptophan genes; Expression (Rivero-Lezcano, O. (68) 201)

Staphylococcus aureus; Coagulase-negative staphylococci; New quinolone antimicrobial agents; Resistance (Yamamoto, T. (68) 335)

Pseudomonas cepacia; Phthalate; Catabolic plasmid (Saint, C.P. (69) 323)

Carbon monoxide; Carbon monoxide dehydrogenase; Carboxydotrophic bacterium; *Pseudomonas thermocarboxydovorans* C2; Immunological screening; Restriction analysis; Western blot analysis; Expression (Black, G.W. (70) 249)

Pyrroloquinoline quinone; *Klebsiella pneumoniae*; *pqq* Gene; Glucose dehydrogenase (Meulenberg, J.J.M. (71) 337)

Cloning of methylated DNA
Streptomyces plasmids; *Streptomyces* signal peptides (Duez, C. (71) 215)

Cloning vector
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Clostridia
Nutrient limitation; Cellulase; Sporulation; Solventogenesis (Ross, R. (74) 153)

Clostridium acetobutylicum
Restriction endonuclease (Azeddoug, H. (65) 323)

Clostridium aminobutyricum
Dehydration; 4-Hydroxybutyryl-CoA; Radical mechanism (Willadsen, P. (70) 187)

Clostridium cellulororans
Endoglucanase; Cellobiosidase; Molecular cloning (Hamamoto, T. (72) 285)

Clostridium difficile
Toxin A; Nucleotide sequence; PCR (Wren, B.W. (70) 1)

Clostridium formicoaceticum
Vanillin; Benzaldehydes; Aromatic compounds; Carbon monoxide; *Clostridium thermoaceticum; Peptostreptococcus productus* (Lux, M.F. (67) 73)

Clostridium perfringens
Transformation; Plasmid shuttle vector; Cloning vector (Phillips-Jones, M.K. (66) 221)

Alpha toxin; Histidine residue (Titball, R.W. (68) 261)

***Clostridium perfringens* 3624A Rif^r Str^r**
Electrotransformation (Allen, S.P. (70) 217)

***Clostridium perfringens* epsilon toxin**
Chemical modification; Lethal activity; Pressor activity; Contractile response (Nagahama, M. (72) 59)

Clostridium septicum
H-toxin; Phospholipase A_2 (Takano, S. (68) 319)

Clostridium thermoaceticum
Vanillin; Benzaldehydes; Aromatic compounds; Carbon monoxide; *Clostridium formicoaceticum; Peptostreptococcus productus* (Lux, M.F. (67) 73)

Clostridium thermocellum
Cellulase; Directed mutation; Growth lag; Carbon source (Nochur, S.V. (71) 199)

Cellulase assay; Cellulolytic complex; Michaelis-Menten kinetics (Nolte, A. (72) 201)

Clostridium thermohydrosulfuricum
Thermophilic bacteria; Pullulanase type II; Enzyme secretion (Klingeberg, M. (69) 145)

Cluster analysis
Protein pattern; Outer membrane protein; Iron; *Neisseria meningiditis* (Ferreirós, C.M. (71) 49)

C_1-metabolism
Methylamine dehydrogenase; *Paracoccus denitrificans* (Köstler, M. (65) 1)

CMP-KDO-synthetase
Escherichia coli; Capsular polysaccharide (Finke, A. (69) 129)

CNW campylobacter
Electrophoresis; Protein pattern (Owen, R.J. (69) 329)

Coagulase-negative staphylococci
Staphylococcus aureus; New quinolone antimicrobial agents; Resistance; Cloning (Yamamoto, T. (68) 335)

Penicillin-binding protein (Kanda, K. (72) 51)

Codon usage
Bacillus subtilis; Gene expression (Loshon, C.A. (65) 59)

Coenzyme F_{420}
Methanosarcina barkeri; Methanogenesis; Methanopterin; Methylenetetrahydromethanopterin reductase (Ma, K. (70) 119)

CO_2 fixation
Gene duplication; *cfx* Genes; *gap* Gene; Megaplasmid pHG1; Isoenzyme; Calvin cycle (Windhövel, U. (66) 29)

Coleoptera
Bacillus thuringiensis; Insecticidal crystal protein; *Escherichia coli*; Recombinant DNA; Site specific mutagenesis; Fusion protein (Rhim, S.-L. (66) 95)

CoLE$_1$-plasmids
Escherichia coli; Plasmid curing; α-Santonin (Bharathi, A. (68) 213)

Coliform
Injury; Ammonia; *Escherichia coli*; *Enterobacter aerogenes* (Naundorf, G. (65) 65)

Coligenoid
Hybrid toxin; Heat-labile enterotoxin; A and B subunits; p*I* Value (Tsuji, T. (69) 299)

Colonial variation
Actinobacillus actinomycetemcomitans; Fimbriae (Inouye, T. (69) 13)

Colonic bacteria
Mercaptoacetate; Anaerobic fermentation; Anaerobiosis (Duncan, A. (74) 303)

Colonization factor antigen
Escherichia coli; Enterotoxin (Wennerås, C. (66) 107)

Colonization factors
Glycolipid; Enterotoxigenic *E. coli* (Sporsem Orø, H. (72) 289)

Colony formation
First order reaction kinetics; Sulfate-reducing bacteria; *Desulfovibrio desulfuricans*; Sediment (Fukui, M. (73) 85)

Colony hybridization
Obligate methanotroph; Soluble methane monooxygenase gene (Stainthorpe, A.C. (70) 211)

Common polysaccharide antigen
Pseudomonas aeruginosa; *Pseudomonas cerasi*; Lipopolysaccharide; O-antigen; O-antiserum (Kocharova, N.A. (76) 69)

Pseudomonas aeruginosa; Antibody; Protein antigen (Makarenko, T.A. (76) 321)

Community composition
Hot spring; 16S rcDNA; Cyanobacterial mat (Octopus Spring); Molecular biology (Ward, D.M. (75) 105)

Compatible solute
Ectothiorhodospira halochloris; *Halomonas elongata*; Tetrahydropyrimidine; Ectoine biosynthesis (Peters, P. (71) 157)

Ectothiorhodospira halochloris; Osmoregulation; Dilution stress; Transport system for glycine betaine (Tschichholz, I. (73) 181)

Betaine; Potassium; Glutamate; Gene expression; Transport; Osmoregulation; DNA supercoiling (Booth, I.R. (75) 239)

Competent streptococcus
DNA transport; *Streptococcus* sp. (Clavé, C. (65) 113)

Complement
Klebsiella pneumoniae; Chemiluminescence; Lipopolysaccharide (Williams, P. (69) 305)

Complementation
Hydrogen uptake; Hydrogenase; *hup* Genes; Hup$^-$ mutants; *Azotobacter chroococcum*; *Bradyrhizobium japonicum* (Tibelius, K.H. (65) 53)

Complete Freund's adjuvant
Immunological adjuvant; Dimethyl dioctadecyl ammonium bromide; Aluminium hydroxide; Semliki Forest virus; Antibody-isotype; Delayed-type hypersensitivity (Katz, D. (76) 305)

Complexed membrane
Brevibacterium ammoniagenes; Protein secretion (Seehaus, C. (66) 281)

Component B
Methyl-coenzyme M reductase; Component C; Purification; Methane (Jetten, M.S.M. (66) 183)

Component C
Methyl-coenzyme M reductase; Component B; Purification; Methane (Jetten, M.S.M. (66) 183)

Composting
Denitrification; Nitrogen gas evolution (Casella, S. (68) 53)

Concatemeric linear molecule
Macrorestriction pattern analysis; *Streptomyces ambofaciens*; Pulsed-field gel electrophoresis; Genome size; Intraspecific polymorphism (Leblond, P. (72) 79)

Condensed tannins
Cellulase activity; Fungal diversity; Litter decomposition; *Abies alba* (Savoie, J.-M. (73) 175)

Conformational epitope
Pertussis toxin; Receptor binding domain; Binding inhibition; Monoclonal antibody (Schmidt, M.A. (76) 269)

Congo red
Saprolegnia; β-Glucan synthases (Nodet, P. (69) 225)

Conjugal transfer
Tn*916*; *Thermus*; Thermophile (Sen, S. (67) 131)

Conjugation
Bacteroides ruminicola; Xylanase; *Bacteroides fragilis* (Whitehead, T.R. (66) 61)

Entry exclusion; Mobilization; Plasmid aggregate; *Citrobacter freundii* (Morzejko, E. (68) 7)

Escherichia coli; *Mycobacterium smegmatis*; Plasmid transfer (Lazraq, R. (69) 135)

Conjugative plasmid; Resistance transfer (Udo, E.E. (72) 183)

Lactococcus lactis; Bacteriocin; Bacteriophage resistance; DRC1 (Powell, I.B. (72) 209)

Conjugative plasmid
Conjugation; Resistance transfer (Udo, E.E. (72) 183)

Conjugative transposon
Enterococcus faecalis; Tetracycline resistance; Chromosome; Plasmid (Horaud, T. (72) 189)

Consensus sequences
Recombinant DNA; Synthetic promoter sequences; *lac* Fusions; Transcription activators (Lodge, J. (67) 221)

Conserved amino acid homology
Periplasmic permeases; Traffic ATPases; ATP binding proteins; Energy coupling; Multidrug resistance (Ames, G.F.-L. (75) 429)

Continuous culture
Phototrophic bacteria; Bacteriochlorophyll *a* synthesis; Oxic/anoxic regimen (De Wit, R. (73) 69)

Nutrient limitation; Starvation; Derepression (Gottschal, J.C. (74) 93)

Contractile response
Clostridium perfringens epsilon toxin; Chemical modification; Lethal activity; Pressor activity (Nagahama, M. (72) 59)

Cooperativity
Deposition; Cell surface; Flow cell (Sjollema, J. (69) 263)

Copper
Cytochrome oxidase; Manganese; *Paracoccus denitrificans*; Cytochrome *c* (Hubbard, J.A.M. (67) 197)

Copper protein
Nitrobacter vulgaris; Nitrite reductase activity; Nitric oxide production (Ahlers, B. (67) 121)

Cord factor
Serodiagnosis; Mycobacteriosis; Tuberculosis; ELISA (He, H. (76) 201)

Correlation
Identification; Seasonality; Water and plankton samples; *Vibrionaceae* (Chowdhury, M.A.R. (74) 1)

Corynebacterium
Diphtheria toxin; *Bacillus subtilis* (Hemilä, H. (65) 193)

Plasmid transformation; Electroporation; DNA modification (Bonamy, C. (66) 263)

DNA sequence; γ-Corynephage (Cianciotto, N. (66) 299)

Bacillus; Protoplast fusion; Hybrid (Deb, J.K. (71) 287)

D2 group; Chemotaxonomy (Herrera-Alcaraz, E.A. (72) 341)

Corynebacterium glutamicum
Transformation; Electroporation; Restriction (Liebl, W. (65) 299)

***Corynebacterium* sp.**
Origin of replication; Shuttle vector; Broad host range plasmid (Serwold-Davis, T.M. (66) 119)

γ-Corynephage
Corynebacterium; DNA sequence (Cianciotto, N. (66) 299)

Cotton cellulose crystallites
Trichoderma reesei; Cell wall fractions (Sprey, B. (67) 301)

Cotton degradation
Ruminococcus flavefaciens; Scanning electron microscopy (Stewart, C.S. (72) 47)

Cotransfer
Conjugation; Entry exclusion; Mobilization; Plasmid aggregate; *Citrobacter freundii* (Morzejko, E. (68) 7)

***p*-Coumaric acid**
Coumarin; *Neocallimastix patriciarum*; *Neocallimastix frontalis* (Cansunar, E. (70) 157)

Coumarin
p-Coumaric acid; *Neocallimastix patriciarum*; *Neocallimastix frontalis* (Cansunar, E. (70) 157)

CPSase-ATCase
Repression; Feedback; UTP (Potier, S. (72) 215)

C-reactive protein
Candida albicans; Phagocytosis; Neutrophil (Richardson, M.D. (76) 341)

***Crinalium epipsammum* SAB 22.89**
Cyanobacteria; Desiccation; Green alga; Matrix stress; Osmotic stress; Photosynthesis; *Klebsormidium flaccidum*; *Tychonema* sp. SAB 23.89 (De Winder, B. (74) 33)

Cross-reactivity
Borrelia burgdorferi; Antibody; Spirochete (Sambri, V. (76) 345)

CRP
FNR; Transcriptional regulation; DNA-binding proteins; Aerobic-anaerobic switch; *Escherichia coli* (Spiro, S. (75) 399)

Cruzipain
Trypanosoma cruzi; Cysteine proteinase; IgG degradation; Fc degradation (Bontempi, E. (70) 337)

Cryptic plasmid
Pneumococcus; pDP1; Cloning (Berry, A.M. (65) 275)

Staphylococcus aureus; Methicillin resistance (Walters, J.A. (71) 55)

β-Cryptoxanthin
β-Carotene; Carotenogenic *Escherichia coli*; *Erwinia herbicola* Eho 10; Zeaxanthin (Sandmann, G. (71) 77)

Crystallization
Alcaligenes eutrophus; Native poly(3-hydroxybutyrate) granule; Structure (Kawaguchi, Y. (70) 151)

CS antigens
Escherichia coli; Plasmid; Regulation of fimbriae (Willshaw, G.A. (68) 255)

Curing
Killer; Acridine orange; *Saccharomyces cerevisiae* (Cansado, J. (65) 233)

Cyanide-insensitive respiration
Agaricus bisporus; *Scytalidium thermophilum*; Oxygen consumption (Derikx, P.J.L. (66) 307)

Cyanobacteria
Cell wall; Lipopolysaccharide; *Microcystis aeruginosa*; Outer membrane protein; Peptidoglycan–polysaccharide complex (Jürgens, U.J. (65) 47)

Anabaena doliolum; Urease; Regulation (Singh, S. (67) 79)

Synechocystis; Respiration; Salt stress; Mutant; Cytochrome *c* oxidase (Jeanjean, R. (68) 125)

Ammonium transport; Heterocystous filaments; Akinetes; Germination; Oxygenic photosynthesis (Sing, S. (68) 163)

Restriction endonuclease; Isoschizomer; *Synechocystis*; *Ava*II; *Xmn*I; *Syn*I; *Syn*II (Foerg, E. (69) 105)

Aphanothece halophytica; *Aphanothece stagnina*; Photosynthesis; NaCl (Rai, A.K. (69) 177)

Salinity effect; 77K-Fluorescence (Schubert, H. (71) 169)

Desiccation; Green alga; Matrix stress; Osmotic stress; Photosynthesis; *Klebsormidium flaccidum*; *Crinalium epipsammum* SAB 22.89; *Tychonema* sp. SAB 23.89 (De Winder, B. (74) 33)

Cyanobacterial mat; Nitrogen fixation; Oxygenic photosynthesis; Oxygen profiles; Microelectrode measurements; Diurnal cycle; Light; *Oscillatoria* (Villbrandt, M. (74) 59)

Cyanobacterial nitrogen fixation; Arid soils (Smith, G.D. (74) 79)

Cyanobacterial mat
Nitrogen fixation; Oxygenic photosynthesis; Oxygen profiles; Microelectrode measurements; Cyanobacteria; Diurnal cycle; Light; *Oscillatoria* (Villbrandt, M. (74) 59)

Cyanobacterial mat (Octopus Spring)
Hot spring; 16S rcDNA; Molecular biology; Community composition (Ward, D.M. (75) 105)

Cyanobacterial nitrogen fixation
Cyanobacteria; Arid soils (Smith, G.D. (74) 79)

Cyanobacterin
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Ectothiorhodospira
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Free and attached bacteria
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***htpG* Gene**
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***cfx* Genes**
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β-Glucanase
Penicillium oxalicum; Autolysis; Cell wall hydrolysis; β-Glucan (Copa-Patiño, J.L. (70) 233)

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Glyceryl trinitrate
Glyceryl mononitrates; Bioconversion; *Geotrichum candidum* (Ducrocq, C. (65) 219)

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Glycinebetaine synthesis
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Glycoconjugates
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Glycolipid
Mycobacterium tuberculosis; Antigen (Minnikin, D.E. (67) 55)

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Glycoprotein D
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Gold labelling
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ppGpp
Heat shock and heavy metal ion stresses; Bisadenylated nucleotides; Nitrogen starvation of *Anabaena* sp.; *Synechococcus* sp.; Cyanophage AS-1 (Borbély, G. (74) 141)

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Gram-positive bacterium
Rapid procedure; DNA base composition (Ezaki, T. (67) 127)

Granular sludge
Antigenic fingerprinting; Methanogenic bacteria; UASB bioreactors (Koornneef, E. (73) 225)

Acetate kinase; Acetyl-CoA synthetase; Hydrogen; *Methanotrix*; *Methanosarcina* (Jetten, M.S.M. (73) 339)

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Gravitaxis
Artifical UV radiation; Dinoflagellate; *Peridinium gatunense*; Solar radiation (Häder, D.-P. (73) 331)

Grazing
DAPI; Surface antigens; Bacteriophages (Enger, Ø. (74) 215)

Great Bay estuary
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Green alga
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Lipoteichoic acid; *Lactococcus lactis* ssp. *cremoris*; Protein (Sijtsma, L. (76) 159)

Growth
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Growth inhibition assay
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Growth, in vivo
Bacteroides fragilis; Outer membrane protein (Patrick, S. (71) 1)

Growth lag
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Growth rate
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Growth state
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Growth yields
Product formation; Potential improvements; Exopolysaccharide (Linton, J.D. (75) 1)

GTP-cyclohydrolase I
Escherichia coli; Plasmid; Cloning (Katzenmeier, G. (66) 231)

Gyrase inhibitor
Gene regulation; DNA supercoiling; *tdc* Operon; *Escherichia coli* (Sumantran, V.N. (65) 37)

Haemagglutination
Fibrillae; *Escherichia coli*; Mutagenesis, in vitro; ELISA; Protein structure (Simons, B.L. (67) 107)

Haemin
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Haemolysin
Siderophore; Iron-binding protein; Pathogenic bacteria (Martínez, J.L. (75) 45)

Staphylococcus aureus; Capsular polysaccharide; Antigenic conjugate (Reynaud-Rondier, L. (76) 193)

Haemolytic activity
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Haemophilus
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Haloarcula
Halobacterium; *Haloferax*; Archaebacteria; Dimethylsulfoxide; Trimethylamine *N*-oxide; Anaerobic growth (Oren, A. (70) 33)

Halobacterium
Haloferax; *Haloarcula*; Archaebacteria; Dimethylsulfoxide; Trimethylamine *N*-oxide; Anaerobic growth (Oren, A. (70) 33)

Halophilic eubacteria; Amino acid uptake; Deoxycholate; Taurocholate (Oren, A. (73) 41)

Halophilic eubacteria; Saltern; Dead Sea; Chloramphenicol; Anisomycin (Oren, A. (73) 187)

Halobacterium lacusprofundi
Chemotaxonomy; Polar lipids; Lipoquinones (Tindall, B.J. (66) 199)

Haloferax
Halobacterium; *Haloarcula*; Archaebacteria; Dimethylsulfoxide; Trimethylamine *N*-oxide; Anaerobic growth (Oren, A. (70) 33)

Halomonas elongata
Ectothiorhodospira halochloris; Compatible solute; Tetrahydropyrimidine; Ectoine biosynthesis (Peters, P. (71) 157)

Halophile
Paracoccus; *Rhodobacter*; *Micrococcus*; Polyamine (Hamana, K. (67) 267)

Halophilic archaebacteria
Fructose metabolism; Ketohexokinase; 1-Phosphofructokinase; Modified EMP pathway (Altekar, W. (69) 139)

Halophilic eubacteria
Halobacterium; Amino acid uptake; Deoxycholate; Taurocholate (Oren, A. (73) 41)

Halobacterium; Saltern; Dead Sea; Chloramphenicol; Anisomycin (Oren, A. (73) 187)

H antigen
Escherichia coli; Flagellin; H serotype; Monoclonal antibody (Schoenhals, G. (72) 117)

Heat-labile enterotoxin
Hemagglutinating activity; *Escherichia coli* (Sugii, S. (66) 45)

Enterotoxigenic *Escherichia coli* (Tsuji, T. (67) 329)

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Heat sensitive factor
Yersinia ruckeri; Cell extracts; Virulence (Furones, M.D. (66) 339)

Heat shock
Freezing protection; Hydrophobic hydration (Komatsu, Y. (72) 159)

Heat shock and heavy metal ion stresses
ppGpp; Bisadenylated nucleotides; Nitrogen starvation of *Anabaena* sp.; *Synechococcus* sp.; Cyanophage AS-1 (Borbély, G. (74) 141)

Heat shock proteins
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65-kDa Heat shock protein
B-cell epitope; Monoclonal antibody (Rambukkana, A. (76) 39)

Helicobacter pylori
Flagellar polypeptide (Luke, C.J. (71) 225)

Urease; Spiral gastric bacteria (Turbett, G.R. (76) 19)

***Heliobacterium* sp.**
Fatty acid; Lipopolysaccharide; Analysis (Beck, H. (69) 229)

Hemagglutinating activity
Heat-labile enterotoxin; *Escherichia coli* (Sugii, S. (66) 45)

Hemagglutination
Salivary histidine-rich peptide; *Bacteroides gingivalis* (Murakami, Y. (72) 275)

Hemagglutinin
Diarrhoeal disease; Cholera toxin; Proteolytic nicking/activation; Toxin-co-regulated pilus (Jonson, G. (74) 221)

Hemolysin
Listeria monocytogenes; Listeriolysin gene (Leimeister-Wächter, M. (65) 23)

Monoclonal antibody; *Vibrio parahaemolyticus* (Honda, T. (68) 167)

Hemolysin, a new
DNA-cloning; Sequencing; *Vibrio parahaemolyticus* (Taniguchi, H. (67) 339)

Hepatocyte
Listeria; Toxicity; Pathogenicity; *Listeria monocytogenes*; *Listeria ivanovii* (Huang, J.C. (72) 249)

HEp-2 cell
Escherichia coli; Cell invasion (Donnenberg, M.S. (69) 83)

Herbert model
Maintenance model; Pirt model (Beeftink, H.H. (73) 203)

Herpes simplex virus
Glycoprotein D; B-cell epitope; T cell epitope; Synthetic peptide (Welling-Wester, S. (76) 59)

Heterocystous filaments
Cyanobacteria; Ammonium transport; Akinetes; Germination; Oxygenic photosynthesis (Sing, S. (68) 163)

Heterologous protein
Bacillus sp.; Secretion; Subcellular location; Gold labelling (Wagner, B. (65) 327)

Heterotrophic nitrification
Proton translocation; Energy conservation; *Pseudomonas* sp.; *Alcaligenes*; Pyruvic oxime; Hydroxylamine (Castignetti, D. (66) 175)

NO production; N_2O production; Paddy soil (Krämer, M. (73) 345)

Acid rain; Ammonium deposition; Autotrophic nitrification; *Penicilliu*; Nitrogen cycle (Stams, A.J.M. (74) 337)

H_2 formation
Methanol oxidation; Formaldehyde oxidation; Sodium dependence; Methanogenic bacteria (Winner, C. (65) 259)

High density lipoprotein
Streptococcus group A; Opacity factor; Apoprotein AI; Apoproteinase (Saravani, G.A. (68) 35)

Histidine
Saccharomyces cerevisiae; Ni-resistance (Joho, M. (66) 333)

Histidine operon
Filamentation; SOS regulation (Gibert, I. (69) 205)

Histidine residue
Alpha toxin; *Clostridium perfringens* (Titball, R.W. (68) 261)

HIV-1
Peptide library; Expression/secretion vector in yeast; Delineation of epitopes; Mapping of monoclonal antibodies (Madaule, P. (76) 99)

gp41 Fragment env591-642; Expression in yeast; Binding affinity; Antigenicity in ELISA tests (Gairin, J.E. (76) 109)

Homacetogens
Amino acid transport; Proton motive force; Anaerobic electron transport; Thermophily (Hugenholtz, J. (69) 117)

Homeoviscous adaptation
Eubacteria; Archaebacteria; Fatty acid biosynthesis; Psychrotrophic bacteria (Russell, N.J. (75) 171)

Homocaldopentamine
Polyamine; Caldopentamine; Thermopentamine; Caldohexamine; *Thermomicrobium*; Thermophile (Hamana, K. (68) 31)

Homospermidine
Agrobacteria; Thermospermine; Spermine; Decarboxylase (Hamana, K. (65) 269)

Polyamine; Hydroxyputrescine; Diaminopropane; *Thiobacillus* (Hamana, K. (70) 347)

Polyamine; *Rhizobium*; *Bradyrhizobium*; *Azorhizobium*; *Agrobacterium* (Hamana, K. (71) 71)

Host chromosomal DNA packaging
Bacillus natto; Defective phage; Induction with bleomycin and mitomycin C (Tsutsumi, Y. (72) 41)

Host-endosymbiont association
Azolla; *Anabaena azollae*; DNA hybridization (Plazinski, J. (65) 199)

Hot spring
16S rcDNA; Cyanobacterial mat (Octopus Spring); Molecular biology; Community composition (Ward, D.M. (75) 105)

H_2 oxidation kinetics
Hydrogen-oxidizing bacteria; Soil enzymes; Atmospheric H_2; H_2 threshold (Schuler, S. (73) 77)

***Hpa*II isoschizomer**
Streptococcus thermophilus; Type II restriction endonuclease; *Sth*134I (Solaiman, D.K.Y. (67) 261)

^1H, ^{31}P-NMR
LB broth; Yeast autolysis; Yeast extracts; Cyclic nucleosides (Rayner, M.H. (68) 217)

HS-CoM uptake
Bromoethanesulfonate; Salt marsh sediment (Konisky, J. (73) 239)

H serotype
Escherichia coli; Flagellin; H antigen; Monoclonal antibody (Schoenhals, G. (72) 117)

H_2 threshold
Hydrogen-oxidizing bacteria; Soil enzymes; Atmospheric H_2; H_2 oxidation kinetics (Schuler, S. (73) 77)

H-toxin
Clostridium septicum; Phospholipase A_2 (Takano, S. (68) 319)

Human neutrophil phagocytosis
Candida albicans; Cilofungin (Richardson, M.D. (76) 299)

Human septicemia
Escherichia coli; Virulence: O serogroups (Cherifi, A. (70) 279)

Human T cell line
Streptococcus mutans; Streptoccocal antigen I/II; Dental caries (Brookes, R.H. (76) 177)

Human transferrin
Outer membrane protein; Meningococci (Ala'Aldeen, D.A. (69) 37)

Hup$^-$ mutants
Hydrogen uptake; Hydrogenase; Complementation; *hup* Genes; *Azotobacter chroococcum*; *Bradyrhizobium japonicum* (Tibelius, K.H. (65) 53)

Hybrid
Bacillus; *Corynebacterium*; Protoplast fusion (Deb, J.K. (71) 287)

Hybrid enzyme system
Penicillin G; *Pseudomonas putida*; *Penicillium chrysogenum* (Martínez-Blanco, H. (72) 163)

Hybridization
Streptomyces griseus; Candicidin; *pab* Gene (Gil, J.A. (70) 15)

Borrelia burgdorferi; Southern blots; Monoclonal antibody (Fattorini, P. (76) 13)

Hybrid organisms
Chlorobiphenyl utilization; Chlorocatechol degrading enzymes (Mokross, H. (71) 179)

Hybrid toxin
Heat-labile enterotoxin; A and B subunits; Coligenoid; p*I* Value (Tsuji, T. (69) 299)

Hydrogen
Acetate kinase; Acetyl-CoA synthetase; Granular sludge; *Methanotrix*; *Methanosarcina* (Jetten, M.S.M. (73) 339)

Hydrogenase
Hydrogen uptake; Hup^- mutants; Complementation; *hup* Genes; *Azotobacter chroococcum*; *Bradyrhizobium japonicum* (Tibelius, K.H. (65) 53)

Casuarina; *Frankia*; Nickel; Nitrogen fixation (Sellstedt, A. (70) 137)

Methanosarcina; Transition metal ion (Bhosale, S.B. (70) 241)

Archaebacteria; *Pyrococcus furiosus*; Metalloenzymes (Adams, M.W.W. (75) 219)

Hydrogenase synthesis
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Hydrogenosome
Anaerobic protozoa; Evolution (Finlay, B.J. (65) 311)

Hydrogen-oxidizing bacteria
Soil enzymes; Atmospheric H_2; H_2 oxidation kinetics; H_2 threshold (Schuler, S. (73) 77)

Hydrogen peroxide release
Aerococcus; Superoxide dismutase; Pyruvate oxidase (Yanze Kontchou, C. (68) 323)

Hydrogen photoproduction
Photosynthetic bacteria; Nitrogenase/hydrogenase; Free and immobilized cells (Sasikala, K. (72) 23)

Hydrogen uptake
Hydrogenase; Hup^- mutants; Complementation; *hup* Genes; *Azotobacter chroococcum*; *Bradyrhizobium japonicum* (Tibelius, K.H. (65) 53)

Hydrophobic hydration
Heat shock; Freezing protection (Komatsu, Y. (72) 159)

4-Hydroxybutyryl-CoA
Clostridium aminobutyricum; Dehydration; Radical mechanism (Willadsen, P. (70) 187)

3-Hydroxy-4(1H)-pyridone
2,3-DHP; Rumen toxin degradation; Sheep rumen (Dominguez-Bello, M.G. (73) 283)

Hydroxylamine
Heterotrophic nitrification; Proton translocation; Energy conservation; *Pseudomonas* sp.; *Alcaligenes*; Pyruvic oxime (Castignetti, D. (66) 175)

Hydroxylapatite
Streptococcus sanguis; Adhesion; Sulfolane (Zhang, X.-h. (71) 315)

Hydroxypolyamine
Carboxydobacteria; *Pseudomonas*; Polyamine (Hamana, K. (70) 353)

Hydroxyputrescine
Polyamine; Diaminopropane; Homospermidine; *Thiobacillus* (Hamana, K. (70) 347)

Hyperproduction
β-Lactamase; Gene amplification (Shannon, K. (67) 319)

Hypersensitivity
Respiratory syncytial virus; Vaccine; Immunity; Antigenic variation; Epitope mapping (Toms, G.L. (76) 243)

Hyperthermoactive amylase
Archaebacteria; *Pyrococcus furiosus* (Koch, R. (71) 21)

Hyperthermoactive serine-protease
Thermo-anaerobic archaebacterium; *Pyrococcus furiosus* (Eggen, R. (71) 17)

Hyperthermophiles
Taxonomy (Stetter, K.O. (75) 117)

Identification
Seasonality; Water and plankton samples; *Vibrionaceae*; Correlation (Chowdhury, M.A.R. (74) 1)

IgG degradation
Trypanosoma cruzi; Cysteine proteinase; Cruzipain; Fc degradation (Bontempi, E. (70) 337)

Image analysis
Peridinium; Phototaxis; Action spectrum; Inhibitor (Liu, S.-M. (73) 91)

Image processing
Streptomycetes; Septation; Branching; Fluorescence microscopy (Reichl, U. (67) 207)

Immune complexes
Tuberculosis; Mycobacteria; Tuberculosis immunodiagnosis (Udaykumar, (76) 135)

Immune system
Staphylococcus aureus; Staphylococcal enterotoxin (Wood, A.C. (76) 121)

Immunity
Respiratory syncytial virus; Vaccine; Antigenic variation; Hypersensitivity; Epitope mapping (Toms, G.L. (76) 243)

Immunization
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Immunoaffinity purification
Staphylococcus aureus (MRSA); Penicillin-binding protein; Monoclonal antibody; ELISA (Harrington, C.R. (65) 143)

Immunoblotting
Beer spoilage; *Pectinatus cerevisiiphilus* (Hakalehto, E. (67) 307)

Isoelectric focusing; SDS–PAGE; *Brucella* (Zygmunt, M.S. (70) 263)

Oxygen regulation; Nitrite reductase; Nitrous oxide reductase (Coyne, M.S. (73) 263)

Immunocytochemistry
Mycobacteria; Capsule; Electron microscopy (Rastogi, N. (70) 161)

Immunodiagnosis
Salmonellosis; Synthetic antigens; Passive hemagglutination; Enzyme immunoassay (Tendetnik, Y.Y. (76) 93)

Immunofluorescence
Cationic fluorescent dye; Fluorescence; Flow cytometry; Bacteria; *Agrobacterium tumefaciens*; Lectins; Glycoconjugates; Antibody (Depierreux, C. (67) 237)

Immunogenicity
Lipooligosaccharide (LOS); *Borrelia burgdorferi* (Cinco, M. (76) 33)

Immunological adjuvant
Dimethyl dioctadecyl ammonium bromide; Complete Freund's adjuvant; Aluminium hydroxide; Semliki Forest virus; Antibody-isotype; Delayed-type hypersensitivity (Katz, D. (76) 305)

Immunological detection of bacteria
Soil inoculation; Monoclonal antibody (Mason, J. (73) 299)

Immunological response
Circulating immune complex; *Treponema pallidum* (Podwińska, J. (76) 83)

Immunological screening
Carbon monoxide; Carbon monoxide dehydrogenase; Carboxydotrophic bacterium; *Pseudomonas thermocarboxydovorans* C2; Cloning; Restriction analysis; Western blot analysis; Expression (Black, G.W. (70) 249)

Immunomodulation
Mycoplasma arthritidis; Murine arthritis (Kaklamani, E. (76) 205)

Incubation medium
Nitrobacter; Spatial distribution (Both, G.J. (74) 277)

Induction with bleomycin and mitomycin C
Bacillus natto; Defective phage; Host chromosomal DNA packaging (Tsutsumi, Y. (72) 41)

Infective endocarditis
Streptococcus sanguis; *Streptococcus* spp. (Douglas, C.W.I. (72) 63)

Inhibition of methanogens
Microbial conversion rates; Diffusion flux; Biogeochemical processes; Iron and manganese reduction; Redox sequence; Anaerobic methane oxidation (Brandl, H. (74) 21)

Inhibitor
Peridinium; Phototaxis; Image analysis; Action spectrum (Liu, S.-M. (73) 91)

Injury
Ammonia; Coliform; *Escherichia coli*; *Enterobacter aerogenes* (Naundorf, G. (65) 65)

Inoculum standardization
Frankia; Tetrazolium salt; Biomass and metabolic activity estimations (Prin, Y. (69) 91)

Inorganic carbon uptake
Bicarbonate concentrating system; RuBisCO activity; Unicellular cyanobacteria; Oceanic *Synechococcus* species (Amalia, D. (68) 137)

Inosine production
Bacillus subtilis; Metabolism of purines; *spoOA* Gene (Maznitsa, I.I. (72) 173)

Inositol metabolism
Streptomyces sp.; Myo-inositol-1-phosphate synthase; Aminocyclitol antibiotics (Sipos, L. (65) 339)

Insecticidal crystal protein
Bacillus thuringiensis; *Coleoptera*; *Escherichia coli*; Recombinant DNA; Site specific mutagenesis; Fusion protein (Rhim, S.-L. (66) 95)

Insertion sequence IS1
Osmoregulation; *ompC* Gene; Gene activation; *E. coli* outer membrane (Ozawa, Y. (68) 295)

Insertion sites
Pulsed-field gel electrophoresis; Genome mapping; Virulence (Canard, B. (66) 323)

Integration
Lactobacillus plantarum; Plasmid; Transformation (Rixon, J.E. (71) 105)

Interferon production
Streptococcus faecalis; *Enterococcus hirae*; Lipoteichoic acid; Phosphatidylglycolipid; Tumour necrosis factor production; Interleukin-1 production (Tsutsui, O. (76) 211)

Intergeneric complementation
Lactococcus lactis subsp. *lactis*; Molecular cloning; *recA* functions (Novel, M. (72) 309)

Interleukin-1 production
Streptococcus faecalis; *Enterococcus hirae*; Lipoteichoic acid; Phosphatidylglycolipid; Tumour necrosis factor production; Interferon production (Tsutsui, O. (76) 211)

Intermittent feeding
L-DOPA; Tyrosine conversion (Chattopadhyay, S. (72) 195)

Interspecies hydrogen transfer
Anaerobic protozoa; Methanogenic endosymbionts; Metabolic shift (Goosen, N.K. (69) 171)

Methanogenesis; Acetate; Thermophile (Zinder, S.H. (75) 125)

Intestinal colonization
Enterochelin; Aerobactin (Franklin, D.P. (74) 229)

Intramolecular hemiacetal cleavage reaction
Dibenzofuran; Aryl ether cleavage; Angular dioxygenation; *Brevibacterium* (Engesser, K.H. (65) 205)

Intraspecific polymorphism
Macrorestriction pattern analysis; *Streptomyces ambofaciens*; Pulsed-field gel electrophoresis; Concatemeric linear molecule; Genome size (Leblond, P. (72) 79)

Introduced bacteria
Population dynamics; *Rhizobium leguminosarum* biovar *trifolii*; Soil type (Postma, J. (73) 49)

Invasiveness
Salmonella enteritidis; Phage type 4; Chicken (Hinton, M. (70) 193)

Invertase
Aspergillus nidulans; Solubilisation; Cell wall; Location (Vainstein, M.H. (71) 265)

In vitro
Fusobacterium nucleatum; Lipopolysaccharide; Lipid A; Polysaccharide; Mitogenity; Synergism (Sveen, K. (76) 47)

Iron
Haemophilus; Transferrin; Outer membrane; Siderophore (Morton, D.J. (65) 123)

Siderophore; *Bordetella pertussis* (Gorringe, A.R. (66) 101)

N. meningitidis; Transferrin; Transferrin-binding proteins (Griffiths, E. (69) 31)

Acinetobacter calcoaceticus; Siderophore (Smith, A.W. (70) 29)

Serum susceptibility; Outer membrane; *Neisseria meningitidis* (Criado, M.T. (70) 145)

Protein pattern; Cluster analysis; Outer membrane protein; *Neisseria meningiditis* (Ferreirós, C.M. (71) 49)

Bordetella pertussis; Outer membrane; Outer membrane protein (Anwar, H. (71) 305)

Iron and manganese reduction
Microbial conversion rates; Diffusion flux; Biogeochemical processes; Redox sequence; Anaerobic methane oxidation; Inhibition of methanogens (Brandl, H. (74) 21)

Iron-binding protein
Siderophore; Haemolysin; Pathogenic bacteria (Martínez, J.L. (75) 45)

Iron limitation
Haemophilus ducreyi; Protein profiles (Abeck, D. (68) 41)

Iron-oxidizers
Cytochrome; *Leptospirillum ferrooxidans*; Acidophiles (Barr, D.W. (70) 85)

Iron reduction
Manganese reduction; Marine sediments (King, G.M. (73) 131)

Iron regulated outer membrane protein
Bacteroides fragilis; Purification; Lipopolysaccharide binding protein (Otto, B.R. (66) 285)

Irreversible binding
Macrolide antibiotic; Bactericidal effect; TMS-19-Q (Endou, K. (72) 93)

IS30
smp; Promoter mutations (Neuwald, A.F. (68) 13)

Isoelectric focusing
SDS–PAGE; *Brucella*; Immunoblotting (Zygmunt, M.S. (70) 263)

Isoenzyme
Gene duplication; *cfx* Genes; *gap* Gene; Megaplasmid pHG1; Calvin cycle; CO_2 fixation (Windhövel, U. (66) 29)

Serratia marcescens; Alkaline phosphatase (Bhatti, A.R. (71) 111)

Entamoeba histolytica; Cytotoxicity (Romana, S. (76) 75)

Isolation
Nocardia lactamdurans; Thymidine kinase negative mutant (Darland, G. (65) 229)

Isoleucine label
Staphylococcus; Anteiso-fatty acid; Novel labeling; Lipid release; LTA; Penicillin action (Rozgonyi, F. (71) 11)

Isopenicillin N
Penicillin biosynthesis; α-Aminoadipate; α-Aminoadipyl-cysteinyl-valine; *Penicillum chrysogenum* (Hönlinger, C. (65) 71)

Isopenicillin N synthase
Cephalosporium acremonium; β-Lactam antibiotics biosynthesis (Baldwin, J.E. (68) 45)

Isoschizomer
Type II restriction endonuclease; *Ava*I (Leung, S.M. (66) 153)

Restriction endonuclease; Cyanobacteria; *Synechocystis*; *Ava*II; *Xmn*I; *Syn*I; *Syn*II (Foerg, E. (69) 105)

Iturin producing *Bacillus subtilis*
Transformation; KCl treatment (Matsuno, Y. (67) 227)

Kanamycin resistance
Chlamydomonas reinhardtii; Transformation (Bingham, S.E. (65) 77)

KCl treatment
Iturin producing *Bacillus subtilis*; Transformation (Matsuno, Y. (67) 227)

KDO
2-Keto-3-deoxyoctonate; *Vibrio cholerae*; Lipopolysaccharide (Kondo, S. (68) 155)

K^+ efflux
Pseudomonas syringae; Pool metabolites (Cabral, J.P.S. (72) 109)

2-Keto-3-deoxyoctonate
KDO; *Vibrio cholerae*; Lipopolysaccharide (Kondo, S. (68) 155)

Ketohexokinase
Fructose metabolism; Halophilic archaebacteria; 1-Phosphofructokinase; Modified EMP pathway (Altekar, W. (69) 139)

Killer
Curing; Acridine orange; *Saccharomyces cerevisiae* (Cansado, J. (65) 233)

Saccharomyces cereviseae; Fermentation (Longo, E. (71) 331)

Killer activity
Saccharomyces cerevisiae; Double stranded RNA; Electroinjection (Salek, A. (70) 67)

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Campylobacter jejuni; Synthetic medium; Enterotoxin; Characterization (Saha, S.K. (67) 333)

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Oscillations; Anaerobic glycolysis; Starvation (Cortassa, S. (66) 249)

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Extended spectrum β-lactamases; Plasmid-encoded (Ben Redjeb, S. (67) 33)

Chemiluminescence; Lipopolysaccharide; Complement (Williams, P. (69) 305)

Pyrroloquinoline quinone; Cloning; *pqq* Gene; Glucose dehydrogenase (Meulenberg, J.J.M. (71) 337)

Klebsormidium flaccidum
Cyanobacteria; Desiccation; Green alga; Matrix stress; Osmotic stress; Photosynthesis; *Crinalium epipsammum* SAB 22.89; *Tychonema* sp. SAB 23.89 (De Winder, B. (74) 33)

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Lignin degradation; *Rigidoporus lignosus*; Mn-peroxidase; Solid state fermentation (Galliano, H. (67) 295)

β-Lactam antibiotics
Streptococcus pneumoniae; Bacterial killing (López, R. (66) 317)

EDTA; Lipoic acid; Outer membrane permeability; Potential-time technique (Jouenne, T. (68) 313)

β-Lactam antibiotics biosynthesis
Isopenicillin N synthase; *Cephalosporium acremonium* (Baldwin, J.E. (68) 45)

β-Lactamase
Hyperproduction; Gene amplification (Shannon, K. (67) 319)

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FPLC; TEM; Cefotaxime; Ceftazidime resistance (Payne, D.J. (69) 195)

Staphylococcus aureus; Nucleotide sequence; Mutagenesis (East, A.K. (69) 249)

β-Lactamase induction
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Lactate degradation
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Lactate dehydrogenase mobility variants
Electromorphs in *Selenomonas ruminantium*; Glucokinase mobility variants; Glutamic dehydrogenase mobility variants; Strain variation in rumen bacteria (Flint, H.J. (73) 351)

Lactate-fermenting bacteria
Total culturable bacteria; Cellulolytic bacteria; Proteolytic bacteria (Van Gylswyk, N.O. (73) 243)

Lactate metabolism
Rhodopseudomonas cryptolactis; Thermotolerance; Bacteriochlorophyll (Stadtwald-Demchick, R. (71) 117)

Lactic acid bacterium
Aerococcus; *Pediococcus*; *Tetragenococcus* gen. nov.; Phylogeny; 16S rRNA (Collins, M.D. (70) 255)

Lactic dehydrogenase
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Leuconostoc; Taxonomy; Phylogeny; rRNA (Martinez-Murcia, A.J. (70) 73)

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Lipase; Electroporation (Vogel, R.F. (69) 289)

Lactobacillus plantarum
Lactate degradation; Pyruvate formate lyase (Lindgren, S.E. (66) 209)

Pyrimidines; *pyrE* Gene; Orotate phosphoribosyl transferase (Bouia, A. (69) 233)

Plasmid; Integration; Transformation (Rixon, J.E. (71) 105)

Lactococcus lactis
Bacteriocin; Bacteriophage resistance; Conjugation; DRC1 (Powell, I.B. (72) 209)

Lactococcus lactis* ssp. *cremoris
Lipoteichoic acid; Group-N-antigen; Protein (Sijtsma, L. (76) 159)

Lactococcus lactis* subsp. *lactis
Molecular cloning; Intergeneric complementation; *recA* functions (Novel, M. (72) 309)

***Lactococcus piscium* sp. nov.**
Molecular systematics; Ribosomal RNA sequence; Fatty acid; DNA base composition (Williams, A.M. (68) 109)

Lambda phage
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LB broth
^{1}H, ^{31}P-NMR; Yeast autolysis; Yeast extracts; Cyclic nucleosides (Rayner, M.H. (68) 217)

Leaching
Sulphur metabolism; *Thiobacillus*; Acidophiles (Pronk, J.T. (75) 293)

Lectins
Fungi; Anaerobic; Rumen; FITC (Guillot, J. (67) 151)

Cationic fluorescent dye; Fluorescence; Flow cytometry; Bacteria; *Agrobacterium tumefaciens*; Glycoconjugates; Antibody; Immunofluorescence (Depierreux, C. (67) 237)

***Legionella pneumophila recA* gene**
Nucleotide sequence (Zhao, X. (70) 227)

***Legionella* ssp.**
Genome analysis; Orthogonal field attenuation gel electrophoresis (Bender, L. (72) 253)

Lepidopteran toxicity
Bacillus thuringiensis subsp. *morrisoni* (PG-14); Mutant; Dipteran toxicity; Protein endotoxin specificity (Padua, L.E. (66) 257)

Leprosy
Mycobacterium leprae; PCR; Diagnostics (Woods, S.A. (65) 305)

Leptospira interrogans
Ribosomal RNA cistron; cDNA transcription; Biotin labelling (Hookey, J.V. (72) 329)

Leptospirillum ferrooxidans
Cytochrome; Iron-oxidizers; Acidophiles (Barr, D.W. (70) 85)

Lethal activity
Clostridium perfringens epsilon toxin; Chemical modification; Pressor activity; Contractile response (Nagahama, M. (72) 59)

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Protection; Arthritogenesis; *Yersinia enterocolitica* serovar O:3 (De los Toyos, J.R. (76) 289)

Leuconostoc
Lactobacillus; Taxonomy; Phylogeny; rRNA (Martinez-Murcia, A.J. (70) 73)

Leuconostoc oenos
Lactic dehydrogenase; Characterization (Dicks, L.M.T. (67) 9)

L-forms
Shuttle vector; *Streptococcus*; *Proteus mirabilis*; Streptokinase; Expression (Laplace, F. (65) 89)

Light
Cyanobacterial mat; Nitrogen fixation; Oxygenic photosynthesis; Oxygen profiles; Microelectrode measurements; Cyanobacteria; Diurnal cycle; *Oscillatoria* (Villbrandt, M. (74) 59)

Light-harvesting complexes
Membrane vesiculation; *Rhodobacter sphaeroides*; *Rhodobacter capsulatus* (Golecki, J.R. (65) 315)

Light pulse
Gibberella fujikuroi; Carotenogenesis; Photoinduction (Avalos, J. (66) 295)

Lignin degradation
Trametes versicolor; Oxygenase system; White-rot fungus (Khan, A.W. (66) 215)

Rigidoporus lignosus; Laccase; Mn-peroxidase; Solid state fermentation (Galliano, H. (67) 295)

Lignin peroxidase
Manganese peroxidases; *Phanerochaete chrysosporium*; Basidiomycete; White-rot fungus (Balachandra Dass, S. (69) 221)

Phanerochaete chrysosporium; Mycelial pellets; 3,4-Dimethoxybenzylamine (Liebeskind, M. (71) 325)

Lipase
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Lactobacillus curvatus; Electroporation (Vogel, R.F. (69) 289)

Freshwater microorganisms; Methylumbelliferyl substrates; Galactosidase; Glucosidase; Phosphatase; Sulphatase (Goulder, R. (73) 323)

Lipid A
Fusobacterium nucleatum; Lipopolysaccharide; Polysaccharide; Mitogenity; Synergism; In vitro (Sveen, K. (76) 47)

Lipid release
Staphylococcus; Anteiso-fatty acid; Novel labeling; Isoleucine label; LTA; Penicillin action (Rozgonyi, F. (71) 11)

Lipids
Mycobacterium ulcerans; Phthiocerol family; Phenolphthiocerol family (Besra, G.S. (66) 11)

Lipogenesis
Candida albicans; Acetyl CoA; Mitochondria; Carnitine acetyltransferase (Sheridan, R. (69) 165)

Lipoic acid
EDTA; β-Lactam antibiotics; Outer membrane permeability; Potential-time technique (Jouenne, T. (68) 313)

Lipooligosaccharide (LOS)
Immunogenicity; *Borrelia burgdorferi* (Cinco, M. (76) 33)

Lipopolysaccharide
Cell wall; Cyanobacteria; *Microcystis aeruginosa*; Outer membrane protein; Peptidoglycan–polysaccharide complex (Jürgens, U.J. (65) 47)

Bradyrhizobium spp.; *Bradyrhizobium japonicum*; *Escherichia coli*; Peanut agglutinin; Asialoganglioside; Micelle; Precipitin reaction (Maiti, T.K. (65) 279)

2-Keto-3-deoxyoctonate; KDO; *Vibrio cholerae* (Kondo, S. (68) 155)

Aeromonas; Bacteriophage PM2 (Merino, S. (68) 239)

Pseudomonas aeruginosa; *Escherichia coli*; Monoclonal antibody (Yokota, S.-i. (68) 245)

Fatty acid; *Heliobacterium* sp.; Analysis (Beck, H. (69) 229)

Klebsiella pneumoniae; Chemiluminescence; Complement (Williams, P. (69) 305)

Citrobacter; Saccharide–protein conjugate (Ługowski, C. (76) 1)

Fusobacterium nucleatum; Lipid A; Polysaccharide; Mitogenity; Synergism; In vitro (Sveen, K. (76) 47)

Pseudomonas aeruginosa; *Pseudomonas cerasi*; O-antigen; Common polysaccharide antigen; O-antiserum (Kocharova, N.A. (76) 69)

Lipopolysaccharide receptor; Lymphocyte-cell line; Macrophage-like cell line (Kirikae, T. (76) 327)

Lipopolysaccharide binding protein
Bacteroides fragilis; Purification; Iron regulated outer membrane protein (Otto, B.R. (66) 285)

Lipopolysaccharide receptor
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Lipoquinones
Halobacterium lacusprofundi; Chemotaxonomy; Polar lipids (Tindall, B.J. (66) 199)

Lipoteichoic acid
Lactococcus lactis ssp. *cremoris*; Group-N-antigen; Protein (Sijtsma, L. (76) 159)

Streptococcus faecalis; *Enterococcus hirae*; Phosphatidylglycolipid; Tumour necrosis factor production; Interleukin-1 production; Interferon production (Tsutsui, O. (76) 211)

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Listeria
Listeriolysin O; Thiol-activated toxins; Functional domains; Receptor binding; Cytolysis (Vazquez-Boland, J.A. (65) 95)

Hepatocyte; Toxicity; Pathogenicity; *Listeria monocytogenes*; *Listeria ivanovii* (Huang, J.C. (72) 249)

Listeria ivanovii
Listeria; Hepatocyte; Toxicity; Pathogenicity; *Listeria monocytogenes* (Huang, J.C. (72) 249)

Listeria monocytogenes
Hemolysin; Listeriolysin gene (Leimeister-Wächter, M. (65) 23)

Carbohydrate binding protein; Bacterial adherence (Cottin, J. (68) 301)

Listeria; Hepatocyte; Toxicity; Pathogenicity; *Listeria ivanovii* (Huang, J.C. (72) 249)

***Listeria* sp.**
Antigen; Structure (García, J.A. (67) 113)

Listeriolysin gene
Listeria monocytogenes; Hemolysin (Leimeister-Wächter, M. (65) 23)

Listeriolysin O
Listeria; Thiol-activated toxins; Functional domains; Receptor binding; Cytolysis (Vazquez-Boland, J.A. (65) 95)

Litter decomposition
Cellulase activity; Fungal diversity; Condensed tannins; *Abies alba* (Savoie, J.-M. (73) 175)

Live vaccine
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Location
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Logistic model
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Long chain alcohols
Alcohol oxidase; *Candida bombicola (syn. Torulopsis bombicola)*; Alkane diols (Hommel, R. (70) 183)

Low molecular weight carbohydrates
Gnotobiotic culture; Free amino acids; Free and attached bacteria (Sundin, P. (73) 13)

LTA
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Luciferase
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Luria-Bertani broth
Cadmium resistance; Cadmium precipitation; Trace elements; Elemental analysis (Rayner, M.H. (71) 253)

Lymphocyte-cell line
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Lysine biosynthesis
α-Aminoadipate-semialdehyde dehydrogenase; *Trichosporon adeninovorans* (Schmidt, H. (70) 41)

Lytic fission, late eccentric
Schizosaccharomyces pombe; Extreme form (Bligh, H.F.J. (68) 69)

Macrocyst
Dictyostelium mucoroides; Cysteine proteinase (North, M.J. (72) 153)

α_2-Macroglobulin
Streptococcus; Phagocytosis; Polymorphonuclear neutrophil (Valentin-Weigand, P. (70) 321)

Macrolide antibiotic
Bioconversion; Mycinamicin; *Micromonospora* (Fujiwara, T. (69) 101)

Bactericidal effect; Irreversible binding; TMS-19-Q (Endou, K. (72) 93)

Macrolide-lincosamide-streptogramin B resistance
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Macrophage
Mycolic acid; *Nocardia rubra*; Chemotactic factor (Matsunaga, I. (67) 49)

Activation; *Mycobacterium bovis* (BCG); *Bcg* locus (Afroun, S. (76) 257)

Macrophage hyperreactivity
Endotoxin; Streptococcal pyrogenic exotoxin (Murai, T. (68) 61)

Macrophage-like cell line
Lipopolysaccharide; Lipopolysaccharide receptor; Lymphocyte-cell line (Kirikae, T. (76) 327)

Macrorestriction pattern analysis
Streptomyces ambofaciens; Pulsed-field gel electrophoresis; Concatemeric linear molecule; Genome size; Intraspecific polymorphism (Leblond, P. (72) 79)

Maintenance functions
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Maintenance model
Pirt model; Herbert model (Beeftink, H.H. (73) 203)

Malaria
Membrane potential; Rhodamine 123; *Plasmodium falciparum*; Gametocyte (Kato, M. (69) 283)

Peripheral blood mononuclear cell; *Plasmodium falciparum*; T-lymphocytes (Hviid, L. (76) 219)

Malate dehydrogenase
Succinyl-CoA synthetase; *Thermus*; Nucleotide sequence; Amino acid sequence; Enzyme isolation (Nicholls, D.J. (70) 7)

Malate utilisation
Glucose concentration; Catabolite repression (Rodriguez, S.B. (72) 17)

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Manganese
Cytochrome oxidase; Copper; *Paracoccus denitrificans*; Cytochrome *c* (Hubbard, J.A.M. (67) 197)

Manganese peroxidases
Lignin peroxidase; *Phanerochaete chrysosporium*; Basidiomycete; White-rot fungus (Balachandra Dass, S. (69) 221)

Manganese reduction
Iron reduction; Marine sediments (King, G.M. (73) 131)

α-Mannisidase mutant
Analysis; *Saccharomyces cerevisiae* (Cueva, R. (69) 1)

Mapping of monoclonal antibodies
HIV-1; Peptide library; Expression/secretion vector in yeast; Delineation of epitopes (Madaule, P. (76) 99)

Marine environment
Surfactant; Biodegradation; Pollution; Aerobic heterotrophic bacteria (Sigoillot, J.-C. (73) 59)

Marine sediments
Manganese reduction; Iron reduction (King, G.M. (73) 131)

Marine vibrio
Recovery; Stringent response; Stimulus; Starvation-specific proteins (Nyström, T. (74) 129)

Mating response
Calcium signalling; *Chlamydomonas eugametos* (Schuring, F. (71) 237)

Matrix stress
Cyanobacteria; Desiccation; Green alga; Osmotic stress; Photosynthesis; *Klebsormidium flaccidum*; *Crinalium epipsammum* SAB 22.89; *Tychonema* sp. SAB 23.89 (De Winder, B. (74) 33)

Megaplasmid pHG1
Gene duplication; *cfx* Genes; *gap* Gene; Isoenzyme; Calvin cycle; CO_2 fixation (Windhövel, U. (66) 29)

Melanin
Tyrosinase; Bacterial pigments (Kelley, S.K. (67) 275)

Membrane binding
Luciferase; *Vibrio* sp. (Angell, P. (65) 177)

Membrane-elution
Cell cycle; Synchrony; DNA synthesis; Variability; Backwards methods (Cooper, S. (66) 1)

Membrane fusion
Thermophilic bacteria; Solute transport; Energy transduction (De Vrij, W. (75) 183)

Membrane potential
Staphylococcus aureus; Cadmium accumulation; Cadmium efflux; pH Gradient (Tynecka, Z. (69) 159)

Rhodamine 123; *Plasmodium falciparum*; Malaria; Gametocyte (Kato, M. (69) 283)

Membrane vesiculation
Rhodobacter sphaeroides; *Rhodobacter capsulatus*; Light-harvesting complexes (Golecki, J.R. (65) 315)

Meningococci
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Mercaptoacetate
Anaerobic fermentation; Colonic bacteria; Anaerobiosis (Duncan, A. (74) 303)

Metabolic shift
Anaerobic protozoa; Methanogenic endosymbionts; Interspecies hydrogen transfer (Goosen, N.K. (69) 171)

Metabolism
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Metabolism of purines
Bacillus subtilis; Inosine production; *spoOA* Gene (Maznitsa, I.I. (72) 173)

Metalloenzymes
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Metalloprotease
Protein folding; Thermophilic bacillus; Exoprotein; *npr* Gene (Kostrov, S.V. (71) 129)

Metals recovery
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Methyl-coenzyme M reductase; Component C; Component B; Purification (Jetten, M.S.M. (66) 183)

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Methane oxidation
Methane; Sediment; Wetlands; Methanotrophs (King, G.M. (74) 309)

Methane production
Anaerobic protozoa; Endosymbiosis; Methanogenic bacteria (Wagener, S. (74) 39)

Methanobacterium thermoautotrophicum
Anaerobic dehalogenations; Reductive dechlorination; Substitutive dechlorination; Tetrachloromethane; Trichloromethane; *Acetobacterium woodii*; *Desulfobacterium autotrophicum* (Egli, C. (68) 207)

Methanogens; Archaebacteria; Cell wall; Peptidoglycan; Murein; Pseudomurein; Biosynthesis (Hartmann, E. (69) 271)

Methanogenesis
Cytochrome *b*; Cytochrome *c*; *Methanosarcina barkeri* (Lin, D. (68) 89)

Methanosarcina barkeri; Coenzyme F_{420}; Methanopterin; Methylenetetrahydromethanopterin reductase (Ma, K. (70) 119)

Flux studies; O_2 consumption; CH_4 evasion; CH_4 and O_2 concentration profiles; Methanotrophy (Frenzel, P. (73) 149)

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Methanogenic bacteria
Formaldehyde condensation; Methanol oxidation; H_2 formation; Sodium dependence (Winner, C. (65) 259)

Town gas; Underground gas reservoir (Šmigáň, P. (73) 221)

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Anaerobic protozoa; Endosymbiosis; Methane production (Wagener, S. (74) 39)

Methanogenic endosymbionts
Anaerobic protozoa; Metabolic shift; Interspecies hydrogen transfer (Goosen, N.K. (69) 171)

Methanogenic enrichment
Volatile fatty acid; Propionate; Butyrate; Acetogenesis; ^{13}C-NMR (Tholozan, J.L. (73) 291)

Methanogens
Pseudomonas testosteroni; *Veillonella alcalescens*; Oxygen limitation; Mixed cultures (Gerritse, J. (66) 87)

Archaebacteria; *Methanobacterium thermoautotrophicum*; Cell wall; Peptidoglycan; Murein; Pseudomurein; Biosynthesis (Hartmann, E. (69) 271)

Thermophily; Carbohydrate; Metabolism; Syntrophy; Fermentative bacteria; Acetogens (Winter, J. (75) 139)

Methanol
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Methanol dehydrogenase
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Methanol oxidation
Formaldehyde oxidation; H_2 formation; Sodium dependence; Methanogenic bacteria (Winner, C. (65) 259)

Methanopterin
Methanosarcina barkeri; Methanogenesis; Coenzyme F_{420}; Methylenetetrahydromethanopterin reductase (Ma, K. (70) 119)

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Methanosarcina barkeri
Cytochrome *b*; Cytochrome *c*; Methanogenesis (Lin, D. (68) 89)

Methanogenesis; Coenzyme F_{420}; Methanopterin; Methylenetetrahydromethanopterin reductase (Ma, K. (70) 119)

Methanotrix
Acetate kinase; Acetyl-CoA synthetase; Hydrogen; Granular sludge; *Methanosarcina* (Jetten, M.S.M. (73) 339)

Methanotrophs
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Methanotrophy
Flux studies; O_2 consumption; CH_4 evasion; CH_4 and O_2 concentration profiles; Methanogenesis (Frenzel, P. (73) 149)

Methicillin resistance
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Methylacetate
Bacterial metabolism; Methanol; Acetate (Rakov, D.Y. (67) 67)

Methylamine dehydrogenase
C_1-metabolism; *Paracoccus denitrificans* (Köstler, M. (65) 1)

Methylophilus methylotrophus; Methanol dehydrogenase (Dawson, A. (68) 93)

Methylammonium
Ammonium uptake; γ-*N*-Methylglutamine; *Pseudomonas aeruginosa* (Jahns, T. (72) 131)

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Methylenetetrahydromethanopterin reductase
Methanosarcina barkeri; Methanogenesis; Coenzyme F_{420}; Methanopterin (Ma, K. (70) 119)

γ-*N*-Methylglutamine
Ammonium uptake; Methylammonium; *Pseudomonas aeruginosa* (Jahns, T. (72) 131)

Methylhydroxylase
Aromatic compounds; Bacterial metabolism; Mono-oxygenase; Multiprotein component; NADH: acceptor oxidoreductase (El-Mansi, E.M.T. (66) 147)

***Methylobacillus flagellatum* KT**
L-Threonine; Transport (Bourd, G.I. (65) 109)

Methylophilus methylotrophus
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Electron transport; Chromosomal mapping; Gene characterization; Extrachromosomal genetics (De Vries, G.E. (75) 57)

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Freshwater microorganisms; Galactosidase; Glucosidase; Lipase; Phosphatase; Sulphatase (Goulder, R. (73) 323)

Micelle
Bradyrhizobium spp.; *Bradyrhizobium japonicum*; *Escherichia coli*; Peanut agglutinin; Lipopolysaccharide; Asialoganglioside; Precipitin reaction (Maiti, T.K. (65) 279)

Michaelis-Menten kinetics
Clostridium thermocellum; Cellulase assay; Cellulolytic complex (Nolte, A. (72) 201)

Microbial conversion rates
Diffusion flux; Biogeochemical processes; Iron and manganese reduction; Redox sequence; Anaerobic methane oxidation; Inhibition of methanogens (Brandl, H. (74) 21)

'Microbial loop'
Pelagic food webs; Phagotrophic protozoa; *Spumella*; *Ochromonas* (Seale, D.B. (73) 31)

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***Micrococcus* sp.**
α-Amylase; Gene cloning; Nucleotide sequence analysis (Kimura, T. (71) 35)

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Microcystis aeruginosa
Cell wall; Cyanobacteria; Lipopolysaccharide; Outer membrane protein; Peptidoglycan–polysaccharide complex (Jürgens, U.J. (65) 47)

Microcystin-LR; *Nodularia spumigena*; Nodularin; Rapid isolation; Anion exchange chromatography (Martin, C. (68) 1)

Microelectrode
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Microelectrode measurements
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Micromonospora
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Microplate reader
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Milk
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Minicell
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Mitogenity
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Mixed cultures
Pseudomonas testosteroni; *Veillonella alcalescens*; Methanogens; Oxygen limitation (Gerritse, J. (66) 87)

Mn-peroxidase
Lignin degradation; *Rigidoporus lignosus*; Laccase; Solid state fermentation (Galliano, H. (67) 295)

Mobilization
Conjugation; Cotransfer; Entry exclusion; Plasmid aggregate; *Citrobacter freundii* (Morzejko, E. (68) 7)

Mobiluncus
Actinomycetales; Phylogeny; 16S rRNA; Reverse transcriptase sequencing (Lassnig, C. (65) 17)

Modified EMP pathway
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Neocallimastix patriciarum
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Nitrite reductase activity
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***Nitrobacter* sp.**
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Nitrobacter vulgaris
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NO production
N_2O production; Heterotrophic nitrification; Paddy soil (Krämer, M. (73) 345)

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O-antiserum
Pseudomonas aeruginosa; *Pseudomonas cerasi*; Lipopolysaccharide; O-antigen; Common polysaccharide antigen (Kocharova, N.A. (76) 69)

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OmpR protein
Osmoregulation; OmpF and OmpC porins; *E. coli* outer membrane (Mizuno, T. (68) 289)

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Bordetella pertussis; Outer membrane; Iron (Anwar, H. (71) 305)

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Penicillum chrysogenum
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Peptide prodrug
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Peptide transport
Peptide permease; Peptide carrier; Peptide prodrug; Synthetic antibiotic; Antibiotic synergism (Smith, M.W. (70) 311)

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Plasmid stability
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Proteoliposomes
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Proteolysis
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Acidophilic bacteria; Neutrophilic bacteria; *Bacillus acidocaldarius*; Reversed membrane potential (internally positive); K^+-transport systems; TPP^+-distribution method; Centrifugation–filtration method (Bakker, E.P. (75) 319)

Proton translocation
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Pseudomonas cerasi
Pseudomonas aeruginosa; Lipopolysaccharide; O-antigen; Common polysaccharide antigen; O-antiserum (Kocharova, N.A. (76) 69)

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***Pseudomonas* sp.**
Heterotrophic nitrification; Proton translocation; Energy conservation; *Alcaligenes*; Pyruvic oxime; Hydroxylamine (Castignetti, D. (66) 175)

Biarylether; 4-Carboxybiphenylether; Dioxygenolytic ether bond cleavage; Phenol; Protocatechuate (Engesser, K.H. (69) 317)

***Pseudomonas* spp.**
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***Pseudomonas* sp. strain NSS2**
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Pseudomonas syringae* pv. *syringae
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Bacterial genetics; Plasmid; Electroporation; Transformation; *Pseudomonas* (Farinha, M.A. (70) 221)

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Escherichia coli; Proteolysis; Canavanine; Abnormal proteins; *lon* Gene (Rosenberger, R.F. (68) 19)

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Restriction analysis
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Reversed membrane potential (internally positive)
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Rhodobacter capsulatus
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Rhodobacter sphaeroides
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Rhodomicrobium vannielii
Photoheterotrophic growth; Acetone; *Rhodobacter capsulatus*; Nonsulfur purple bacteria; Photosynthesis (Madigan, M.T. (71) 281)

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DNA-methyltransferases-inhibitors; *S*-Adenosyl-homocysteine; *Streptomyces* (Barbés, C. (69) 239)

Site directed mutagenesis
Bacillus thuringiensis; ∂-Endotoxin gene; Receptor binding (Ahmad, W. (68) 97)

Site specific mutagenesis
Bacillus thuringiensis; Insecticidal crystal protein; *Coleoptera*; *Escherichia coli*; Recombinant DNA; Fusion protein (Rhim, S.-L. (66) 95)

Slt
Autolysis; Murein; RelA; Soluble lytic transglycosylase (Betzner, A.S. (67) 161)

smp
IS30; Promoter mutations (Neuwald, A.F. (68) 13)

S. mutans
Glucosyltransferase; Deletions (Kato, C. (72) 299)

Sodium dependence
Methanol oxidation; Formaldehyde oxidation; H_2 formation; Methanogenic bacteria (Winner, C. (65) 259)

Sodium periodate
Mycobacterium tuberculosis; Proteolytic enzymes; Trypsin; Chymotrypsin; Antibody (Udaykumar, (76) 7)

Soil
Antagonism; Non-pathogenic strains; Yield; Biological control (Couteaudier, Y. (74) 261)

Soil enzymes
Hydrogen-oxidizing bacteria; Atmospheric H_2; H_2 oxidation kinetics; H_2 threshold (Schuler, S. (73) 77)

Soil inoculation
Immunological detection of bacteria; Monoclonal antibody (Mason, J. (73) 299)

Soil management
Soil microbial biomass; Glucose uptake kinetics; V_{max} (Anderson, T.-H. (74) 11)

Soil microbial biomass
Glucose uptake kinetics; V_{max}; Soil management (Anderson, T.-H. (74) 11)

Soil moisture
Amoebae; Flagellates; Ciliates (Vargas, R. (74) 73)

Soil organic carbon
Most probable numbers; Oxygen sensitivity; Oxic soils (Mayer, H.P. (73) 103)

Soil rhizosphere
Plasmid RP4 transfer; *Pseudomonas fluorescens* (Van Elsas, J.D. (73) 1)

Soil type
Population dynamics; Introduced bacteria; *Rhizobium leguminosarum* biovar *trifolii* (Postma, J. (73) 49)

Solar radiation
Artifical UV radiation; Dinoflagellate; Gravitaxis; *Peridinium gatunense* (Häder, D.-P. (73) 331)

Solid state fermentation
Lignin degradation; *Rigidoporus lignosus*; Laccase; Mn-peroxidase (Galliano, H. (67) 295)

Solubilisation
Invertase; *Aspergillus nidulans*; Cell wall; Location (Vainstein, M.H. (71) 265)

Soluble lytic transglycosylase
Autolysis; Murein; RelA; Slt (Betzner, A.S. (67) 161)

Soluble methane monooxygenase gene
Obligate methanotroph; Colony hybridization (Stainthorpe, A.C. (70) 211)

Obligate methanotroph (Pilkington, S.J. (72) 345)

Solute transport
Thermophilic bacteria; Energy transduction; Membrane fusion (De Vrij, W. (75) 183)

Solventogenesis
Clostridia; Nutrient limitation; Cellulase; Sporulation (Ross, R. (74) 153)

Sonication
Mycobacteria; DNA-DNA hybridization; DNA probe (Rahav, G. (72) 29)

SOS regulation
Histidine operon; Filamentation (Gibert, I. (69) 205)

Southern blots
Borrelia burgdorferi; Hybridization; Monoclonal antibody (Fattorini, P. (76) 13)

Spatial distribution
Nitrobacter; Incubation medium (Both, G.J. (74) 277)

α-Specific genes
Saccharomyces cerevisiae; Cellular differentiation; SSL1 (Steden, M. (68) 229)

Specific growth rate
Bacterial biofilm; Cell surface hydrophobicity; *Pseudomonas aeruginosa* (Allison, D.G. (71) 101)

Spermine
Agrobacteria; Thermospermine; Homospermidine; Decarboxylase (Hamana, K. (65) 269)

Spiral bacteria
Campylobacter pylori; Stomach; Urease; Monoclonal antibody (Newell, D.G. (65) 183)

Spiral gastric bacteria
Helicobacter pylori; Urease (Turbett, G.R. (76) 19)

Spirochete
Chromosome; Pulsed-field electrophoresis (Baril, C. (71) 95)

Borrelia burgdorferi; Antibody; Cross-reactivity (Sambri, V. (76) 345)

Spirulina platensis
Ribosomal protein S2; Elongation factor Ts; Nucleotide sequence (Sanangelantoni, A.M. (66) 141)

Splenic lymphocytes
Streptococcal pyrogenic exotoxin; Rabbit macrophage function (Murai, T. (69) 201)

Spore
Sporosarcina; Acid-soluble protein (Magill, N.G. (72) 293)

Sporobolomyces salmonicolor
Aldehyde reductase; Asymmetric reduction (Yamada, H. (70) 45)

Sporosarcina
Spore; Acid-soluble protein (Magill, N.G. (72) 293)

Sporulation
Development; Germination; Myxobacteria; Orthophosphate; Polyphosphate (González, F. (65) 105)

Clostridia; Nutrient limitation; Cellulase; Solventogenesis (Ross, R. (74) 153)

Logistic model; Population dynamics; Calcofluor; Saprophytic competence (Couteaudier, Y. (74) 253)

Spumella
'Microbial loop'; Pelagic food webs; Phagotrophic protozoa; *Ochromonas* (Seale, D.B. (73) 31)

16S rcDNA
Hot spring; Cyanobacterial mat (Octopus Spring); Molecular biology; Community composition (Ward, D.M. (75) 105)

16S rRNA
Mobiluncus; *Actinomycetales*; Phylogeny; Reverse transcriptase sequencing (Lassnig, C. (65) 17)

Aerococcus; *Pediococcus*; *Tetragenococcus* gen. nov.; Lactic acid bacterium; Phylogeny (Collins, M.D. (70) 255)

Nucleotide sequence; *Peptococcus niger*; Phylogeny (Ludwig, W. (71) 139)

Enterococcus saccharolyticus comb. nov.; *Streptococcus*; Taxonomy; Phylogeny (Rodrigues, U. (71) 231)

Enterococcus columbae; *Streptococcus*; Taxonomy (Devriese, L.A. (71) 247)

SSL1
Saccharomyces cerevisiae; Cellular differentiation; α-Specific genes (Steden, M. (68) 229)

Staphylococcal enterotoxin
Staphylococcus aureus; Immune system (Wood, A.C. (76) 121)

Staphylococcus
Anteiso-fatty acid; Novel labeling; Isoleucine label; Lipid release; LTA; Penicillin action (Rozgonyi, F. (71) 11)

Staphylococcus aureus
Cibacron blue 3G-A; Cell separation; Giant cluster (Sugai, M. (67) 175)

Coagulase-negative staphylococci; New quinolone antimicrobial agents; Resistance; Cloning (Yamamoto, T. (68) 335)

Plasmid; Macrolide-lincosamide-streptogramin B resistance (Catchpole, I. (69) 43)

Cadmium accumulation; Cadmium efflux; Membrane potential; pH Gradient (Tynecka, Z. (69) 159)

β-Lactamase; Nucleotide sequence; Mutagenesis (East, A.K. (69) 249)

Extracellular protein; Rifampicin-resistant mutants (Al-Ani, B. (70) 91)

Methicillin resistance; Cryptic plasmid (Walters, J.A. (71) 55)

Staphylococcal enterotoxin; Immune system (Wood, A.C. (76) 121)

Capsular polysaccharide; Haemolysin; Antigenic conjugate (Reynaud-Rondier, L. (76) 193)

***Staphylococcus aureus* (MRSA)**
Penicillin-binding protein; Immunoaffinity purification; Monoclonal antibody; ELISA (Harrington, C.R. (65) 143)

Staphylococcus epidermidis
Transformation; DNA, plasmid; Electroporation (Augustin, J. (66) 203)

Fosfomycin resistance; Nucleotide sequence; Protein comparisons (Zilhao, R. (68) 267)

***Staphylococcus hyicus* DSM 20459**
Siderophore; Staphyloferrin (Meiwes, J. (67) 201)

Staphylococcus lugdunensis
Plasmid; Restriction endonuclease analysis; Antibiotic resistance (Etienne, J. (67) 93)

Staphyloferrin
Staphylococcus hyicus DSM 20459; Siderophore (Meiwes, J. (67) 201)

Staphylolytic activity
Staphylolytic protease; *Pseudomonas aeruginosa* (Carnicero, A. (70) 171)

Staphylolytic protease
Staphylolytic activity; *Pseudomonas aeruginosa* (Carnicero, A. (70) 171)

Starch degradation
Amylase; Pullulanase; Thermophile (Antranikian, G. (75) 201)

Starvation
Oscillations; Anaerobic glycolysis; Kinetic/thermodynamic control (Cortassa, S. (66) 249)

Glucose uptake; *Vibrio*; Binding protein (Albertson, N.H. (70) 205)

Nutrient limitation; Continuous culture; Derepression (Gottschal, J.C. (74) 93)

Starvation-specific proteins
Marine vibrio; Recovery; Stringent response; Stimulus (Nyström, T. (74) 129)

Stationary phase
Growth; Nutrient limitation; Batch culture; Cell composition; Carbon; Nitrogen; Phosphorus; Sulphur; Potassium; Dynamics; Exponential phase (Wanner, U. (75) 19)

Stem nodulation
Aeschynomene; Asymbiotic nitrogen fixation; *Rhizobium* (Alazard, D. (68) 177)

***Sth*134I**
Streptococcus thermophilus; Type II restriction endonuclease; *Hpa*II isoschizomer (Solaiman, D.K.Y. (67) 261)

Stimulon
Regulon; Stress; Two-dimensional gels; Alarmones; Cellular databases (VanBogelen, R.A. (74) 121)

Stimulus
Marine vibrio; Recovery; Stringent response; Starvation-specific proteins (Nyström, T. (74) 129)

Stomach
Campylobacter pylori; Spiral bacteria; Urease; Monoclonal antibody (Newell, D.G. (65) 183)

Strain variation in rumen bacteria
Electromorphs in *Selenomonas ruminantium*; Lactate dehydrogenase mobility variants; Glucokinase mobility variants; Glutamic dehydrogenase mobility variants (Flint, H.J. (73) 351)

Streptoccocal antigen I/II
Streptococcus mutans; Dental caries; Human T cell line (Brookes, R.H. (76) 177)

Streptococcal pyrogenic exotoxin
Endotoxin; Macrophage hyperreactivity (Murai, T. (68) 61)

Splenic lymphocytes; Rabbit macrophage function (Murai, T. (69) 201)

Streptococcal toxin
Vascular permeability; Erythema (Kamezawa, Y. (68) 159)

Streptococcus
Shuttle vector; L-forms; *Proteus mirabilis*; Streptokinase; Expression (Laplace, F. (65) 89)

Amylase; Taxonomy; *Streptococcus sanguis*; *'Streptococcus mitior'*; *Streptococcus oralis* (Douglas, C.W.I. (66) 193)

Phagocytosis; α_2-Macroglobulin; Polymorphonuclear neutrophil (Valentin-Weigand, P. (70) 321)

Enterococcus saccharolyticus comb. nov.; 16S rRNA; Taxonomy; Phylogeny (Rodrigues, U. (71) 231)

Enterococcus columbae; Taxonomy; 16S rRNA (Devriese, L.A. (71) 247)

Streptococcus equisimilis
Streptokinase; *skc* Gene; Campbell-like integration; Expression (Müller, J. (72) 75)

Streptococcus faecalis
Lipoteichoic acid; Phosphatidylglycolipid; *Enterococcus hirae*; Tumour necrosis factor production; Interleukin-1 production; Interferon production (Tsutsui, O. (76) 211)

Streptococcus group A
Opacity factor; High density lipoprotein; Apoprotein AI; Apoproteinase (Saravani, G.A. (68) 35)

'Streptococcus mitior'
Streptococcus; Amylase; Taxonomy; *Streptococcus sanguis*; *Streptococcus oralis* (Douglas, C.W.I. (66) 193)

Streptococcus mutans
sr Gene; Nucleotide sequence (Ogier, J.A. (68) 223)

Streptoccocal antigen I/II; Dental caries; Human T cell line (Brookes, R.H. (76) 177)

Streptococcus oralis
Streptococcus pneumoniae; Phages; Choline cell wall (Ronda, C. (65) 187)

Streptococcus; Amylase; Taxonomy; *Streptococcus sanguis*; *'Streptococcus mitior'* (Douglas, C.W.I. (66) 193)

Streptococcus pneumoniae
Streptococcus oralis; Phages; Choline cell wall (Ronda, C. (65) 187)

β-Lactam antibiotics; Bacterial killing (López, R. (66) 317)

Streptococcus pyogenes
M protein; Polymerase chain reaction; Opacity factor (Relf, W.A. (71) 345)

Streptococcus sanguis
Streptococcus; Amylase; Taxonomy; *'Streptococcus mitior'*; *Streptococcus oralis* (Douglas, C.W.I. (66) 193)

Hydroxylapatite; Adhesion; Sulfolane (Zhang, X.-h. (71) 315)

Streptococcus spp.; Infective endocarditis (Douglas, C.W.I. (72) 63)

***Streptococcus* sp.**
DNA transport; Competent streptococcus (Clavé, C. (65) 113)

***Streptococcus* spp.**
Streptococcus sanguis; Infective endocarditis (Douglas, C.W.I. (72) 63)

Streptococcus thermophilus
Type II restriction endonuclease; *Sth*134I; *Hpa*II isoschizomer (Solaiman, D.K.Y. (67) 261)

Streptokinase
Streptococcus; Shuttle vector; L-forms; *Proteus mirabilis*; Expression (Laplace, F (65) 89)

Streptococcus equisimilis; *skc* Gene; Campbell-like integration; Expression (Müller, J. (72) 75)

Streptomyces
Escherichia coli; Promoter-probe vector; SEP-promoters (Asturias, J.A. (68) 65)

Plasmid; Thiostrepton resistance (Malina, H. (68) 195)

DNA-methyltransferases-inhibitors; Sinefungin; *S*-Adenosylhomocysteine (Barbés, C. (69) 239)

Streptomyces ambofaciens
Macrorestriction pattern analysis; Pulsed-field gel electrophoresis; Concatemeric linear molecule; Genome size; Intraspecific polymorphism (Leblond, P. (72) 79)

Streptomyces aureofaciens
Protein synthesis; Vegetative cells (Weiser, J. (65) 11)

Streptomyces avermitilis
Avermectin (Novák, J. (70) 291)

Streptomyces clavuligerus
Proline uptake (Bascarán, V. (69) 27)

Streptomyces coelicolor
Multicopy plasmid (Zakrzewska-Czerwińska, J. (71) 271)

***Streptomyces coelicolor* A3(2)**
Actinorhodin; Physiological control; Dispersed growth; Secondary metabolism (Doull, J.L. (65) 265)

Streptomyces griseus
ADP-ribosylation; NAD-glycohydrolase; Protein modification (Penyige, A. (69) 293)

Candicidin; *pab* Gene; Hybridization (Gil, J.A. (70) 15)

***Streptomyces* plasmids**
Cloning of methylated DNA; *Streptomyces* signal peptides (Duez, C. (71) 215)

***Streptomyces* signal peptides**
Cloning of methylated DNA; *Streptomyces* plasmids (Duez, C. (71) 215)

***Streptomyces* sp.**
Myo-inositol-1-phosphate synthase; Inositol metabolism; Aminocyclitol antibiotics (Sipos, L. (65) 339)

Streptomycetes
Septation; Branching; Fluorescence microscopy; Image processing (Reichl, U. (67) 207)

Protein kinase; Phosphorylation (Dobrová, Z. (71) 145)

Stress
Regulon; Stimulon; Two-dimensional gels; Alarmones; Cellular databases (VanBogelen, R.A. (74) 121)

pH Stress
Escherichia coli; Heat shock proteins; RpoH sigma factor; Electrophoresis, bi-dimensional (Heyde, M. (69) 19)

Stringent response
Chronic starvation; Toxin secretion; Cell cycle (Chesbro, W. (74) 103)

Marine vibrio; Recovery; Stimulus; Starvation-specific proteins (Nyström, T. (74) 129)

Heat shock proteins; Adaptational network; Signalling (Hecker, M. (74) 197)

Structural genes
Rhamnose; *Escherichia coli*; Gene product (Badía, J. (65) 253)

Structural instability
Plasmid stability; Tetracycline resistance; Plasmid pAT153 (Brownlie, L. (71) 173)

Structure
Listeria sp.; Antigen (García, J.A. (67) 113)

Alcaligenes eutrophus; Native poly(3-hydroxybutyrate) granule; Crystallization (Kawaguchi, Y. (70) 151)

Subcellular location
Bacillus sp.; Secretion; Heterologous protein; Gold labelling (Wagner, B. (65) 327)

Substitutive dechlorination
Anaerobic dehalogenations; Reductive dechlorination; Tetrachloromethane; Trichloromethane; *Acetobacterium woodii*; *Methanobacterium thermoautotrophicum*; *Desulfobacterium autotrophicum* (Egli, C. (68) 207)

Substrate concentration
MPN-enumeration; *Nitrobacter*; Dormancy; Nitrous acid (Both, G.J. (74) 287)

Substrate surface tension
Cell hydrophobicity; Cell-substrate adhesion; Plant cell culture (Facchini, P.J. (67) 313)

Succinyl-CoA synthetase
Malate dehydrogenase; *Thermus*; Nucleotide sequence; Amino acid sequence; Enzyme isolation (Nicholls, D.J. (70) 7)

Sulfate activation
Archaeoglobus fulgidus; ATP sulfurylase; Dissimilatory sulfate reduction (Dahl, C. (67) 27)

Sulfate bacteria
Gas chromatography-mass spectrometry; Very-long-chain fatty acids (Řezanka, T. (73) 231)

Sulfate-reducing bacteria
Colony formation; First order reaction kinetics; *Desulfovibrio desulfuricans*; Sediment (Fukui, M. (73) 85)

Survival; Sediment; *Desulfovibrio desulfuricans*; O_2 tolerance (Fukui, M. (73) 317)

Sulfate reduction
Aerobic respiration in anaerobes; Oxidation of sulfur compounds; *Desulfovibrio desulfuricans* (Dilling, W. (71) 123)

Sulfolane
Streptococcus sanguis; Hydroxylapatite; Adhesion (Zhang, X.-h. (71) 315)

Sulfur compounds assimilation
Thiosulfate reductase; Polythionate reductase; Thiosulfate sulfur transferase; Eubacteria; Archaebacteria (Le Faou, A. (75) 351)

Sulphatase
Freshwater microorganisms; Methylumbelliferyl substrates; Galactosidase; Glucosidase; Lipase; Phosphatase (Goulder, R. (73) 323)

Sulphur
Growth; Nutrient limitation; Batch culture; Cell composition; Carbon; Nitrogen; Phosphorus; Potassium; Dynamics; Exponential phase; Stationary phase (Wanner, U. (75) 19)

Sulphur acceptor
Thiobacillus novellus; Oxidation of thiosulphate; Rhodanese (Fukumori, Y. (65) 159)

Sulphur metabolism
Thiobacillus; Acidophiles; Leaching (Pronk, J.T. (75) 293)

Superoxide dismutase
Aerococcus; Hydrogen peroxide release; Pyruvate oxidase (Yanze Kontchou, C. (68) 323)

Surface antigens
DAPI; Grazing; Bacteriophages (Enger, Ø. (74) 215)

Surface polysaccharide
Cytidine 5′-monophospho-*N*-acetyl neuraminic acid; Serum killing (Fox, A.J. (66) 75)

Surfactant
Marine environment; Biodegradation; Pollution; Aerobic heterotrophic bacteria (Sigoillot, J.-C. (73) 59)

Survival
Aeromonas salmonicida; Fish pathogen; River water; Dormancy (Rose, A.S. (68) 105)

Sulfate-reducing bacteria; Sediment; *Desulfovibrio desulfuricans*; O_2 tolerance (Fukui, M. (73) 317)

***Symbiodinium* sp.**
Ribulose bisphosphate carboxylase; Dinoflagellate (Gerberding, H. (70) 343)

Symbiosis
Azolla; *Anabaena*; *Agrobacterium*; Plasmid; DNA hybridization (Plazinski, J. (70) 55)

Symbiotic association
Rhizobium astragali; Barley (Jing, Y. (69) 123)

Synaptosome
Botulinum neurotoxins; Monoclonal antibody (Park, M.K. (72) 243)

Synchrony
Cell cycle; Membrane-elution; DNA synthesis; Variability; Backwards methods (Cooper, S. (66) 1)

***Synechococcus* sp.**
Heat shock and heavy metal ion stresses; ppGpp; Bisadenylated nucleotides; Nitrogen starvation of *Anabaena* sp.; Cyanophage AS-1 (Borbély, G. (74) 141)

Synechocystis
Cyanobacteria; Respiration; Salt stress; Mutant; Cytochrome *c* oxidase (Jeanjean, R. (68) 125)

Restriction endonuclease; Isoschizomer; Cyanobacteria; *Ava*II; *Xmn*I; *Syn*I; *Syn*II (Foerg, E. (69) 105)

Synergism
Fusobacterium nucleatum; Lipopolysaccharide; Lipid A; Polysaccharide; Mitogenity; In vitro (Sveen, K. (76) 47)

***Syn*I**
Restriction endonuclease; Isoschizomer; Cyanobacteria; *Synechocystis*; *Ava*II; *Xmn*I; *Syn*II (Foerg, E. (69) 105)

***Syn*II**
Restriction endonuclease; Isoschizomer; Cyanobacteria; *Synechocystis*; *Ava*II; *Xmn*I; *Syn*I (Foerg, E. (69) 105)

Synthesis
Alcaligenes eutrophus; Poly(3-hydroxyalkanoate) metabolism; Degradation (Doi, Y. (67) 165)

Synthetic antibiotic
Peptide permease; Peptide transport; Peptide carrier; Peptide prodrug; Antibiotic synergism (Smith, M.W. (70) 311)

Synthetic antigens
Immunodiagnosis; Salmonellosis; Passive hemagglutination; Enzyme immunoassay (Tendetnik, Y.Y. (76) 93)

Synthetic medium
Campylobacter jejuni; Enterotoxin; Kinetics; Characterization (Saha, S.K. (67) 333)

Synthetic peptide
Herpes simplex virus; Glycoprotein D; B-cell epitope; T cell epitope (Welling-Wester, S. (76) 59)

Synthetic promoter sequences
Recombinant DNA; *lac* Fusions; Consensus sequences; Transcription activators (Lodge, J. (67) 221)

"Syntrophic" fermentation
2,3-Butanediol; Formate; Thermodynamics (Seitz, H.-J. (71) 83)

Syntrophy
Thermophily; Carbohydrate; Metabolism; Fermentative bacteria; Acetogens; Methanogens (Winter, J. (75) 139)

Syringic acid
3,4,5-Trimethoxybenzoic acid; Anaerobic degradation; Demethoxylation; Volatile methylated sulfur gas; Sediment slurry (Finster, K. (74) 295)

Syringomycin production
Pseudomonas syringae pv. *syringae*; Cysteine mutant strain; Wild type strain (Garriga, X. (72) 177)

Taurocholate
Halobacterium; Halophilic eubacteria; Amino acid uptake; Deoxycholate (Oren, A. (73) 41)

Taxonomy
Streptococcus; Amylase; *Streptococcus sanguis*; *'Streptococcus mitior'*; *Streptococcus oralis* (Douglas, C.W.I. (66) 193)

Viridans streptococci; DNA-DNA hybridization; Ribosomal RNA sequencing; Molecular systematics (Whiley, R.A. (68) 115)

Leuconostoc; *Lactobacillus*; Phylogeny; rRNA (Martinez-Murcia, A.J. (70) 73)

Enterococcus saccharolyticus comb. nov.; *Streptococcus*; 16S rRNA; Phylogeny (Rodrigues, U. (71) 231)

Enterococcus columbae; *Streptococcus*; 16S rRNA (Devriese, L.A. (71) 247)

Hyperthermophiles (Stetter, K.O. (75) 117)

T cell epitope
Herpes simplex virus; Glycoprotein D; B-cell epitope; Synthetic peptide (Welling-Wester, S. (76) 59)

Teicoplanin
Vancomycin; Glycopeptide resistance; *Enterococcus faecium*; *Enterococcus faecalis* (Al-Obeid, S. (70) 101)

Tellurite resistance
Plasmid RP4; Transposition; Maintenance functions (Grewal, K.K. (69) 97)

TEM
FPLC; β-Lactamase; Cefotaxime; Ceftazidime resistance (Payne, D.J. (69) 195)

Temperature
Fimbria; *Escherichia coli* (Van der Woude, M.W. (68) 183)

Ethanol; Fermentation; *Pachysolen tannophilus*; Pentose; Yeast; Xylitol; Xylose (De F.S. Barbosa, M. (72) 35)

Temperature span
Thermophile; Psychrophiles; Anaerobic cryptic thermophiles; Anaerobic extreme thermophiles; Temperature tolerance (Wiegel, J. (75) 155)

Temperature tolerance
Thermophile; Psychrophiles; Anaerobic cryptic thermophiles; Anaerobic extreme thermophiles; Temperature span (Wiegel, J. (75) 155)

TEM-type beta-lactamase
Biotinylated probe; Enterobacteriaceae (Tham, T.N. (69) 109)

Tendamistat
α-Amylase inhibitor; Chymotrypsin; Protein secretion; Fusion protein (Aretz, W. (65) 31)

Tetrachloroethylene
Electron acceptor; Benzoate; Anaerobic degradation (Scholz-Muramatsu, H. (66) 81)

Tetrachloromethane
Anaerobic dehalogenations; Reductive dechlorination; Trichloromethane; Substitutive dechlorination; *Acetobacterium woodii*; *Methanobacterium thermoautotrophicum*; *Desulfobacterium autotrophicum* (Egli, C. (68) 207)

Tetracycline resistance
Plasmid stability; Structural instability; Plasmid pAT153 (Brownlie, L. (71) 173)

Enterococcus faecalis; Chromosome; Plasmid; Conjugative transposon (Horaud, T. (72) 189)

Tetracycline resistance transposon
Acetobacterium woodii; Transfer; Expression (Strätz, M. (68) 171)

***Tetragenococcus* gen. nov.**
Aerococcus; *Pediococcus*; Lactic acid bacterium; Phylogeny; 16S rRNA (Collins, M.D. (70) 255)

Tetrahydropyrimidine
Ectothiorhodospira halochloris; *Halomonas elongata*; Compatible solute; Ectoine biosynthesis (Peters, P. (71) 157)

Tetrazolium salt
Frankia; Inoculum standardization; Biomass and metabolic activity estimations (Prin, Y. (69) 91)

Thermoacidophiles
Archaebacteria; Electron transport; Cytochrome; ATP-synthase; Chemiosmosis (Schäfer, G. (75) 335)

Thermo-anaerobic archaebacterium
Hyperthermoactive serine-protease; *Pyrococcus furiosus* (Eggen, R. (71) 17)

Thermodynamics
"Syntrophic" fermentation; 2,3-Butanediol; Formate (Seitz, H.-J. (71) 83)

***Thermoleophilum* sp.**
Thermophilic bacteria; Polyamine (Hamana, K. (66) 35)

Thermomicrobium
Polyamine; Caldopentamine; Homocaldopentamine; Thermopentamine; Caldohexamine; Thermophile (Hamana, K. (68) 31)

Thermopentamine
Polyamine; *Thermus*; Thermophile (Hamana, K. (68) 27)

Polyamine; Caldopentamine; Homocaldopentamine; Caldohexamine; *Thermomicrobium*; Thermophile (Hamana, K. (68) 31)

Thermophile
Conjugal transfer ; Tn*916*; *Thermus* (Sen, S. (67) 131)

β-D-Xylosidase; *Caldocellum saccharolyticum*; *Escherichia coli* (Lüthi, E. (67) 291)

Polyamine; Thermopentamine; *Thermus* (Hamana, K. (68) 27)

Polyamine; Caldopentamine; Homocaldopentamine; Thermopentamine; Caldohexamine; *Thermomicrobium* (Hamana, K. (68) 31)

Methanogenesis; Acetate; Interspecies hydrogen transfer (Zinder, S.H. (75) 125)

Psychrophiles; Anaerobic cryptic thermophiles; Anaerobic extreme thermophiles; Temperature tolerance; Temperature span (Wiegel, J. (75) 155)

Starch degradation; Amylase; Pullulanase (Antranikian, G. (75) 201)

Thermophilic bacillus
Metalloprotease; Protein folding; Exoprotein; *npr* Gene (Kostrov, S.V. (71) 129)

Thermophilic bacteria
Thermoleophilum sp.; Polyamine (Hamana, K. (66) 35)

Clostridium thermohydrosulfuricum; Pullulanase type II; Enzyme secretion (Klingeberg, M. (69) 145)

Aminoglycoside antibiotic; Archaebacteria; *Pyrococcus woesei* (Catani, M.V. (70) 285)

Solute transport; Energy transduction; Membrane fusion (De Vrij, W. (75) 183)

Thermophily
Photosynthesis; Purple bacteria; N_2 fixation (Resnick, S.M. (65) 165)

Amino acid transport; Homacetogens; Proton motive force; Anaerobic electron transport (Hugenholtz, J. (69) 117)

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Thiosulfate sulfur transferase
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Xylose
Ethanol; Fermentation; *Pachysolen tannophilus*; Pentose; Temperature; Yeast; Xylitol (De F.S. Barbosa, M. (72) 35)

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Yeast extracts
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YompF protein
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